

Product line: # 10XXX**Antibodies, labeled Antibodies (purified immunoglobulin)**

10011	Anti-Human Osteopontin (10A16) Mouse IgG MoAb	10337	Anti-Human Tenascin-C (EGF Like Domain) (4F10TT) Mouse IgG MoAb
10017	Anti-Human 14-3-3 τ Protein (33A) Mouse IgG MoAb	10343	Anti-mTOR (N5D11) Mouse IgG MoAb
10025	Anti-Human ApoE4 (5B5) Mouse IgG MoAb	10345	Anti-Rat Occludin (1A8) Mouse IgM MoAb
10027	Anti-Human Amyloid β (11-28) (12B2) Mouse IgG MoAb	10347	Anti-Human KDR (23B31) Mouse IgG MoAb
10031	Anti-Tob (4B1) Mouse IgG MoAb	10351	Anti-Human PDGFR β (22B1) Mouse IgG MoAb
10037	Anti-Human 14-3-3 γ Protein (63A1) Mouse IgG MoAb	10353	Anti-Human Tie-1 (9C1) Mouse IgG MoAb
10038	Anti-Human Fatty Acid Synthase (FAS) (14G5) Mouse IgG MoAb	10357	Anti-Human C-ERC/Mesothelin (22A31) Mouse IgG MoAb
10045	Anti-Human Amyloid β (N3pE) (8E1) Mouse IgG MoAb	10359	Anti-Human ERK (Clone 5) Mouse IgG MoAb
10047	Anti-Human Amyloid β (35-40) (1A10) Mouse IgG MoAb	10361	Anti-Mouse LEC26 (LA102) Rat IgG MoAb
10078	Anti-Rat Hepatic Sinusoidal Endothelial Cells (SE-1) Mouse IgG MoAb	10363	Anti-Mouse BEC12 (LA5) Rat IgG MoAb
10094	Anti-Human CEA (1B2) Mouse IgG MoAb	10367	Anti-Human Reticulocalbin-1 (TMU-6A1) Mouse IgG MoAb
10096	Anti-Neurofilament, 160K, 210K, (N21-8-4) Mouse Ascites MoAb	10369	Anti-Human TEK/Tie-2 (2A1) Mouse IgG MoAb
10097	Anti-S-100 Protein (2A10) Mouse Ascites MoAb	10371	Anti-Human NP95 (mt40) Mouse IgG MoAb
10098	Anti-Human Platelets (KOR-P77) Mouse IgG MoAb	10373	Anti-Mouse ALK (mAb 16-39) Rat IgG MoAb
10101	Anti-Human Lag (Langerhans Cells), (4D12) Mouse IgG MoAb	10375	Anti-Human SP-A (PE10) Mouse IgG MoAb
10121	Anti-Rat MCP-1 (MB10) Mouse IgG MoAb	10377	Anti-Human RGMa (410-10) Mouse IgG MoAb
10131	Anti-Human KGF (5J2) Mouse IgG MoAb	10379	Anti-Human Amyloid β E22P (11A1) Mouse IgG MoAb
10133	Anti-Human KGF (8A4) Mouse IgG MoAb	10381	Anti-Human CD109 (11H3) Mouse IgG MoAb
10135	Anti-Human KGF (11F1) Mouse IgG MoAb	10383	Anti-Human Intelectin-1 (3G9) Mouse IgG MoAb
10141	Anti-Human CIS3/SOCS-3 (19A5) Mouse IgG MoAb	10385	Anti-Smad2L/3L (T220/T179 Phosphorylated) (1A1) Mouse IgG MoAb
10151	Anti-Human Presenilin-1 (17C2) Mouse IgG MoAb	10387	Anti-Smad3L (S213 Phosphorylated) (5A11) Mouse IgG MoAb
10161	Anti-Human Rad51 (1B1) Mouse IgG MoAb	10389	Anti-Human IDH1 R132H (HMab-1) Mouse IgG MoAb
10171	Anti-Human OGG1 (7E2) Mouse IgG MoAb	10391	Anti-Human IDH1 R132S (SMab-1) Mouse IgG MoAb
10191	Anti-Human Osteopontin (1B20) Mouse IgG MoAb	10401	Anti-Mouse c-MPL/TPOR (AMM2) Rat IgG MoAb
10201	Anti-Human MDMX (77A1) Mouse IgG MoAb	10403	Anti-Mouse c-MPL/TPOR (AMM2) Rat IgG MoAb Biotin
10211	Anti-Human COX-2 (13H14) Mouse IgG MoAb	10405	Anti-Human Niban (110C4) Mouse IgG MoAb
10221	Anti-Human Napsin A (TMU-Ad02) Mouse IgG MoAb	10407	Anti-Poly (ADP-ribose) (10H) Mouse IgG MoAb
10233	Anti-Human Tau/Amino Junction (9A1) Mouse IgG MoAb	10409	Anti-TS (ATYMSMAB) Mouse IgG MoAb
10235	Anti-Human Tau/E2 Junction (1A1) Mouse IgG MoAb	10411	Anti-DPD (ADPYDMAB) Mouse IgG MoAb
10237	Anti-Human Tau/Repeat Domain (2B11) Mouse IgG MoAb	10413	Anti-TP (ATYMPMAB) Mouse IgG MoAb
10241	Anti-Human Parkin (1A1) Mouse IgG MoAb	10415	Anti-Human CD20 (N) (4-6H:2C) Mouse IgG MoAb
10243	Anti-Human Parkin (5A1) Mouse IgG MoAb	10417	Anti-Human Angiotensinogen (104AT 601.2.80) Mouse IgG MoAb
10253	Anti-Human Endothelin-B Receptor (8Z11) Mouse IgG MoAb	10431	Anti-SSEA-3 (15B11) Mouse IgG MoAb
10281	Anti-Human MBD3 (3A3) Mouse IgG MoAb	10501	Anti-PP (Pancreatic Polypeptide) (23-2D3) Mouse IgG MoAb
10301	Anti-Human ORP150 (Oxygen Regulated Protein, p150) (2F07) Mouse IgG MoAb	10503	Anti-HA-tag (6B3) Mouse IgG MoAb
10321	Anti-Human sAPP β -sw (6A1) Mouse IgG MoAb	10505	Anti-Glucagon (52A1A) Rat IgG MoAb
10323	Anti-Human Amyloid β (N) (82E1) Mouse IgG MoAb	10777	Anti-Human Gd-IgA1(KM55) Rat IgG MoAb
10326	Anti-Human Amyloid β (N) (82E1) Mouse IgG MoAb Biotin	10901	Anti-HIV-1 p24 (NP-24) Mouse IgG MoAb
10335	Anti-Human Tenascin-C (Domain B) (4C8MS) Mouse IgG MoAb	10903	Anti-HIV-1 p24 (2C2) Mouse IgG MoAb
		10905	Anti-CD25 (H-8) Mouse IgG MoAb
		10907	Anti-CD25 (H-48) Mouse IgG MoAb
		10909	Anti-CD134/OX40 (B7-B5) Mouse IgG MoAb
		10913	Anti-CD134/OX40 (B#11) Mouse IgG MoAb
		10915	Anti-CD252/OX40L (TAG34) Mouse IgG MoAb
		10917	Anti-CD252/OX40L (8F4) Mouse IgG MoAb

1. Identification of the substance/mixture and of the company information

Product : Listed on the front cover.

Product detail : Antibody or labeled Antibody, (Lyophilized)

Manufacturer/Supplier of the safety data sheet

Immuno-Biological Laboratories Co., Ltd.

1091-1 Naka, Fujioka-shi, Gunma 375-0005, JAPAN

TEL: +81 (0)274-50-8666 FAX: +81 (0)274-23-6055

URL: <https://www.ibl-japan.co.jp/en/> E-Mail: do-ibl@ibl-japan.co.jp

Hazards chemical substance

Dangerous substance	CAS Number	Percent (w/v) %
Sodium azide	26628-22-8	5 % (After reconstitution, 0.05 % in w/v %)

2. Hazards identification**GHS classification and label elements of the product****Classification of the substance or mixture****PHYSICAL AND CHEMICAL HAZARDS**

Self-reactive substances and mixtures: Type G

HEALTH HAZARDS

Acute toxicity (Oral): Category 2

Acute toxicity (Dermal): Category 1

Skin corrosion/irritation: Category 1

Serious eye damage/eye irritation: Category 1

Specific target organ toxicity - single exposure: Category 1 (CVS; lung; CNS; systemic toxicity)

Specific target organ toxicity - repeated exposure: Category 1 (CVS; CNS)

Specific target organ toxicity - repeated exposure: Category 2 (lung)

ENVIRONMENT HAZARDS

Hazardous to the aquatic environment (Acute): Category 1

Hazardous to the aquatic environment (Long-term): Category 1

(Note) GHS classification without description: Not classified/Classification not possible

Label elements

Signal word: Danger

HAZARD STATEMENT

Fatal if swallowed

Fatal in contact with skin

Causes severe skin burns and eye damage

Causes serious eye damage

Causes damage to organs after single exposure

Causes damage to organs through prolonged or repeated exposure

May cause damage to organs through prolonged or repeated exposure

Very toxic to aquatic life

Very toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENT**Prevention**

- Avoid release to the environment.
- Do not breathe dust/fume/gas/mist/vapors/spray.
- Do not get in eyes, on skin, or on clothing.
- Wash contaminated parts thoroughly after handling.
- Wear protective gloves, protective clothing or face protection.
- Wear eye protection/face protection.
- Do not eat, drink or smoke when using this product.

Response

- Collect spillage.
- Get medical advice/attention if you feel unwell.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- IF ON SKIN: Wash with plenty of soap and water.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- Take off immediately all contaminated clothing and wash it before reuse.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Disposal

- Dispose of contents/container in accordance with local/national regulation.

3. Composition/information on ingredients**Mixture/Substance selection:** Mixture

- Ingredient name: Sodium azide
- Percent (w/v) %: 5 % (After reconstitution, 0.05 % in w/v %)
- Chemical formula: NaN_3
- Chemicals No., Japan: 1-482
- CAS No.: 26628-22-8
- MW: 65.01
- ECNO: 247-852-1

Note : The figures shown above are not the specifications of the product.

4. First-aid measures**Descriptions of first-aid measures****General measures**

- Get medical attention/advice if you feel unwell.

IF INHALED

- Remove person to fresh air and keep comfortable for breathing.
- Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN (or hair)

- Take off immediately all contaminated clothing. Rinse skin with water/shower.
- Wash with plenty of soap and water.
- If skin irritation or rash occurs: Get medical advice/attention.

IF IN EYES

- Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/attention.

IF SWALLOWED

- Rinse mouth. Do NOT induce vomiting.
- Call a POISON CENTER or doctor/physician if you feel unwell.

5. Fire-fighting measures**Extinguishing media****Suitable extinguishing media**

In case of fire, use water mist, foam, dry sand to extinguish.

Unsuitable extinguishing media

Inactive gas firefighting equipment

Halogenated firefighting system

Dry-powder firefighting equipment - phosphate etc.

Dry-powder firefighting equipment - hydrogen carbonate etc.

Dry-powder firefighting equipment - except for phosphate etc., hydrogen carbonate etc.

Carbon dioxide extinguisher

Halogenated extinguisher

Dry-powder extinguisher - phosphate etc.

Dry-powder extinguisher - hydrogen carbonate etc

Dry-powder extinguisher - except for phosphate etc., hydrogen carbonate etc.

Specific hazards arising from the substance or mixture

Containers may explode when heated.

Fire may produce irritating, corrosive and/or toxic gases.

Advice for firefighters**Specific fire-fighting measures**

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

Wear fire/flame resistant/retardant clothing.

Wear protective gloves/protective clothing/eye protection/face protection.

Firefighters should wear self-contained breathing apparatus with full face piece operated positive pressure mode.

6. Accidental release measures**Personnel precautions, protective equipment and emergency procedures**

Ventilate area until material pick up is complete.

Wear proper protective equipment.

Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

Avoid raising dust.

Methods and materials for containment and cleaning up

Sweep up, place in a bag and hold for waste disposal.

Preventive measures for secondary accident

Collect spillage.

7. Handling and storage**Precautions for safe handling****Preventive measures**

(Exposure Control for handling personnel)

Do not breathe dust/fume/gas/mist/vapors/spray.

(Protective measures against fire and explosion)

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

(Exhaust/ventilator)

Exhaust/ventilator should be available.

(Safety treatments)

Avoid contact with skin.

Avoid contact with eyes.

Safety Measures

Wear protective gloves, protective clothing or face protection.

Wear eye protection/face protection.

When using do not eat, drink or smoke.

Any incompatibilities

See "10. Stability and Reactivity"

Advice on general occupational hygiene

Do not get in eyes, on skin, or on clothing.

Wash contaminated parts thoroughly after handling.

Do not eat, drink or smoke when using this product.

Take off immediately all contaminated clothing and wash it before reuse.

Storage**Conditions for safe storage**

Keep container tightly closed.

Store in a cool, dry place. Do not store in direct sunlight.

Keep under lock and key.

Container and packaging materials for safe handling

Glass

Polyethylene

8. Exposure controls/personal protection**Control parameters****Adopted value**

(Sodium azide)

ACGIH(1992) STEL: C (as Sodium azide) 0.29mg/m³; (as Hydrazoic acid vapor)

0.11ppm (Card impair; lung dam)

Exposure controls**Appropriate engineering controls**

Do not use in areas without adequate ventilation.

Eye wash station should be available.

Washing facilities should be available.

Individual protection measures**Respiratory protection**

Wear respiratory protection.

Hand protection

Wear protective gloves.

Eye protection

Wear eye/face protection.

9. Physical and Chemical Properties**Information on basic physical and chemical properties**

Physical state: Crystals or crystalline powder

Color: Colorless to white

Odor: Odorless

pH data is not available.

Boiling point or initial boiling point data is not available.

Boiling range data is not available.

Melting point/Freezing point: (decomposes) $\geq 275^{\circ}\text{C}$

Decomposition temperature data is not available.

Flammability (gases, liquids and solids) data is not available.

Flash point data is not available.

Auto-ignition temperature data is not available.

Lower and upper explosion limit/flammability limit data is not available.

Vapor pressure: 1 Pa (20°C)

Relative vapor density (Air = 1) data is not available.

Density and/or relative density: 1.85

Kinematic viscosity data is not available.

Solubility:

Solubility in water: Soluble (29wt%, 20°C)
n-Octanol/water partition coefficient data is not available.
No Particle characteristics data is not available.

10. Stability and Reactivity

Reactivity

Not available.

Chemical stability

Deliquescent material.

Possibility of hazardous reactions

Decomposes on heating above 275°C. This produces toxic fumes. This generates fire and explosion hazard. Reacts with copper, lead, silver, mercury and carbon disulfide. This produces particularly shock-sensitive compounds. Reacts with acids. This produces toxic and explosive hydrogen azide. (ICSC 0950)

Conditions to avoid

Contact with incompatible materials.

Contact with fire source.

Incompatible materials

Acids, Copper, Lead, Silver, Mercury, Carbon disulfide

Hazardous decomposition products

Hydrogen azide

11. Toxicological Information

Information on toxicological effects

Acute toxicity

Acute toxicity (Oral)

[GHS Cat. Japan, base data]

(Sodium azide)

rat LD50=45mg/kg (DFGOT vol.20, 2003)

Acute toxicity (Dermal)

[GHS Cat. Japan, base data]

(Sodium azide)

rabbit LD50=20mg/kg (ACGIH, 2001)

Irritant properties

Skin corrosion/irritation

[GHS Cat. Japan, base data]

(Sodium azide)

rabbit corrosive (DFGOT vol.20, 2003)

Serious eye damage/irritation

[GHS Cat. Japan, base data]

(Sodium azide)

Skin Corr. cat. 1

Allergenic and sensitizing effects data is not available.

Mutagenic effects data is not available.

Carcinogenicity

(Sodium azide)

ACGIH-A4(1992) : Not Classifiable as a Human Carcinogen

Reproductive toxicity data is not available.

STOT

STOT-single exposure

[cat.1]

[GHS Cat. Japan, base data]

(Sodium azide)

CVS; lung; CNS; systemic toxicity (DFGOT vol.20, 2003; ACGIH, 2001)

STOT-repeated exposure

[cat.1]

[GHS Cat. Japan, base data]
(Sodium azide)
CNS; CVS (NTPTR 389, 1991)

[cat.2]

[GHS Cat. Japan, base data]
(Sodium azide)
lung (NTPTR 389, 1991)

Aspiration hazard data is not available.**Additional data**

May cause lung disorders by massive inhalation of powdered substance.
-e.g. fibrosis of lung tissue, cough, sputum, breath shortness, dyspnea, decline of lung function, interstitial lung disease, pneumothorax

12. Ecological Information**Ecotoxicity****Aquatic toxicity**

Very toxic to aquatic life
Very toxic to aquatic life with long lasting effects

Aquatic acute toxicity component(s) data

[GHS Cat. Japan, base data]
(Sodium azide)
Algae (*Pseudokirchneriella subcapitata*) ErC50=0.348mg/L/96hr (Aquire, 2010)

Water solubility

(Sodium azide)
good (41.7 g/100 ml, 17°C) (ICSC, 2014)

Persistence and degradability

(Sodium azide)
Degradation measured by HPLC : 1% (Registered chemicals data check & review)

Bioaccumulative potential

(Sodium azide)
log Pow <= 0.3 (Check & Review, Japan)

Mobility in soil

Mobility in soil data is not available.

Other adverse effects

Ozone depleting chemical data is not available.

13. Disposal considerations**Waste treatment methods**

Avoid release to the environment (- if this is not the intended use).
Dispose of contents/container in accordance with local/national regulation.

14. Transport Information

UN No.: 1687
Proper Shipping Name : SODIUM AZIDE
Class or division : 6.1
Packing group : II
ERG GUIDE No.: 153

IMDG Code (International Maritime Dangerous Goods Regulations)

UN No.: 1687
Proper Shipping Name : SODIUM AZIDE
Class or division : 6.1

Packing group : II

IATA Dangerous Goods Regulations

UN No.: 1687

Proper Shipping Name : SODIUM AZIDE

Class or division : 6.1

Hazard labels : Toxic

Packing group : II

Environmental hazards**MARPOL Annex III - Prevention of pollution by harmful substances**

Marine pollutants (yes/no) : yes

MARPOL Annex V - Prevention of pollution by garbage discharge

Specific target organ toxicity - repeated exposure: cat.1

Sodium azide

Hazardous to the aquatic environment - acute hazard: cat.1

Sodium azide

Hazardous to the aquatic environment - long-term hazard: cat.1, 2

Sodium azide

15. Regulatory Information**Safety, health and environmental regulations/legislation specific for the substance or mixture US major regulations**

TSCA

Sodium azide

Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations

16. Other information

The above information is believed to be correct but does not purport to be all-inclusive and shall be used as a guide. Immuno-Biological Laboratories Co., Ltd. shall not be held liable for any damage resulting from handling or contact with the above product. The burden of safe use of these materials rests solely with the user.

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