

Product line: # 28XXX, # 29XXX

Antibodies, labeled Antibodies (purified immunoglobulin)

28001	Anti-Rat C-ERC/Mesothelin (306) Rabbit IgG Affinity Purify	28085	Anti-Human LRG (329) Rabbit IgG Affinity Purify
28011	Anti-Human Raptor (R984) Rabbit IgG Affinity Purify	28101	Anti-Mouse/Rat Angiotensinogen (405) Rabbit IgG Affinity Purify
28013	Anti-Human mLST8 (L17) Rabbit IgG Affinity Purify	28103	Anti-Human Gastrin Receptor (OK-524) Rabbit IgG Affinity Purify
28015	Anti-Human Rheb (R165) Rabbit IgG Affinity Purify	28105	Anti-Mouse Fezf1 Rabbit IgG Affinity Purify
28017	Anti-Human TSC1/Hamartin (T1149) Rabbit IgG Affinity Purify	28111	Anti-Dock6 Rabbit IgG Affinity Purify
28019	Anti-Human LRRK2 Rabbit IgG Affinity Purify	28113	Anti-Dock8 Rabbit IgG Affinity Purify
28021	Anti-APP (Phosphorylated) Rabbit IgG Affinity Purify	28117	Anti-Human Tti1/KIAA0406 Rabbit IgG Affinity Purify
28029	Anti-Smad3L (Ser 208/213 Phosphorylated) Rabbit IgG Affinity Purify	28119	Anti-Human CD109 (461) Rabbit IgG Affinity Purify
28031	Anti-Smad3C (Ser 423/425 Phosphorylated) Rabbit IgG Affinity Purify	28121	Anti-GFAT1 (663) Rabbit IgG Affinity Purify
28033	Anti-Human PRAS40 (P238) Rabbit IgG Affinity Purify	28123	Anti-Human GFAT1 (S243 Phosphorylated) Rabbit IgG Affinity Purify
28035	Anti-Human PRAS40 (S183 Phosphorylated) Rabbit IgG Affinity Purify	28125	Anti-Rat CyCAP (74) Rabbit IgG Affinity Purify
28037	Anti-Human Raptor (R1) Rabbit IgG Affinity Purify	28127	Anti-Mouse C-ERC/Mesothelin (308) Rabbit IgG Affinity Purify
28039	Anti-Human Rictor (R1291) Rabbit IgG Affinity Purify	28129	Anti-Human Niban (C) Rabbit IgG Affinity Purify
28041	Anti-GZF1 Rabbit IgG Affinity Purify	28131	Anti-Rat Niban (53) Rabbit IgG Affinity Purify
28043	Anti-SEP1 Rabbit IgG Affinity Purify	28133	Anti-Human APP770 (351) Rabbit IgG Affinity Purify
28045	Anti-Rat RGMa Rabbit IgG Affinity Purify	28135	Anti-OPRT Rabbit IgG Affinity Purify
28047	Anti- α 2, 6-Sialyltransferase (M2) Rabbit IgG Affinity Purify	28137	Anti-Human RIG-I (CTD) Rabbit IgG Affinity Purify
28049	Anti-Human Podoplanin Rabbit IgG Affinity Purify	28141	Anti-Human CAD (2194) Rabbit IgG Affinity Purify
28051	Anti-BACE1 (42) Rabbit IgG Affinity Purify	28143	Anti-Human Girdin (Phospho-Y1798) Rabbit IgG A.P. (Affinity Purify)
28053	Anti-APP (18) Rabbit IgG Affinity Purify	28145	Anti-Human Girdin (Phospho-Y1764) Rabbit IgG A.P. (Affinity Purify)
28055	Anti-Mouse/Rat APP (597) Rabbit IgG Affinity Purify	28147	Anti-Human Daple Rabbit IgG Affinity Purify
28057	Anti-Human Dock7 Rabbit IgG Affinity Purify	28149	Anti-Human Gipie Rabbit IgG Affinity Purify
28059	Anti-Human XIAP Rabbit IgG Affinity Purify	28153	Anti-Human LRAT (Lecithin Retinol Acyltransferase) (031) Rabbit IgG A.P.
28061	Anti-Human CD109 (1383) Rabbit IgG Affinity Purify	29020	Anti-Human MDA5 Rabbit IgG Affinity Purify
28063	Anti-Human GBF1 (1844) Rabbit IgG Affinity Purify	29030	Anti-Human LGP2 Rabbit IgG Affinity Purify
28065	Anti-Human GBF1 (T1337 Phosphorylated) Rabbit IgG Affinity Purify	29050	Anti-Human Nephhrin (N) Rabbit IgG Affinity Purify
28067	Anti-Human Girdin (S1416 Phosphorylated) Rabbit IgG Affinity Purify	29060	Anti-Human CRMP-2 (Phosphorylated) (3F4) Mouse IgG MoAb
28069	Anti-Rat LRG (128) Rabbit IgG Affinity Purify	29070	Anti-Human Nephhrin (C) Rabbit IgG Affinity Purify
28073	Anti-Human C4.4A (301) Rabbit IgG Affinity Purify		Mouse IgG MoAb
28075	Anti-Mouse LRAT (168) Rabbit IgG Affinity Purify		
28079	Anti-Human Dock7 (Y1118 Phosphorylated) Rabbit IgG Affinity Purify		
28083	Anti-c-Met (Y1235 Phosphorylated) Rabbit IgG Affinity Purify		

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.

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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.

Revision Date 01-Apr-2023