IBL Data Sheet

Code No. 10407

Anti-
Poly (ADP-ribose) (10H) Mouse IgG MoAb

Volume : 100 µg

Introduction : The poly ADP-ribosylation is one of post translational modification of proteins, and is the addition of many ADP-ribose moieties to a protein. This protein modification is carried out by the poly ADP-ribose polymerases (PARPs), which are found in most eukaryotes, but not prokaryotes or yeast. The reaction is involved in various cellular processes and conditions, including DNA repair, transcriptional control, genomic stability, cell death and transformation, and several reports have been indicated in relation to cancer and autoimmune disease (ref. 1-4). This antibody reacts specifically to poly ADP-ribose (PAR) (ref. 4, 5).

Antigen : Purified Poly (ADP-ribose)

Source : Mouse-Mouse hybridoma
(NS1 × BALB/c mouse spleen cells)

Clone : 10H **Subclass** : IgG_3, κ

Purification : Affinity purified with Protein A

Form : Lyophilized product from PBS containing 1 % BSA and 0.05 % NaN_3

How to use : 1.0 mL deionized water will be added to the product, then its concentration comes to 100 µg/mL

Stability : Lyophilized product, 5 years at 2 - 8 °C
: Solution, 2 years at –20 °C

Application : This antibody can be used for immunohistochemistry with formalin fixed paraffin embedded tissues after trypsin treatment, and for immunocytochemistry by fluorescent reagent. Recommended concentration is about 10 µg/mL. However, the concentration should be optimized by each laboratory.
: This antibody can be used for western blotting in concentration of 2 - 5 µg/mL.

Reference :

1. Miwa M, Masutani M. PolyADP-ribosylation and cancer. Cancer Sci. 2007 Oct;98(10):1528-35.
2. Masutani M, Nakagama H, Sugimura T. Poly(ADP-ribosyl)ation in relation to cancer and autoimmune disease. Cell Mol Life Sci. 2005 Apr;62(7-8):769-83.
3. Hanai S, Kanai M, Ohashi S, Okamoto K, Yamada M, Takahashi H, Miwa M. Loss of poly(ADP-ribose) glycohydrolase causes progressive neurodegeneration in Drosophila melanogaster. Proc Natl Acad Sci U S A. 2004 Jan 6;101(1):82-6.
4. Masutani M, Nakagama H, Sugimura T. Poly(ADP-ribose) and carcinogenesis. Genes Chromosomes Cancer. 2003 Dec;38(4):339-48.
5. El-Khamisy SF, Masutani M, Suzuki H, Caldecott KW. A requirement for PARP-1 for the assembly or stability of XRCC1 nuclear foci at sites of oxidative DNA damage. Nucleic Acids Res. 2003 Oct 1;31(19):5526-33.
6. Kawamitsu H, Hoshino H, Okada H, Miwa M, Momoi H, Sugimura T. Monoclonal antibodies to poly(adenosine diphosphate ribose) recognize different structures. Biochemistry. 1984 Jul 31;23(16):3771-7.

Immuno-Biological Laboratories Co., Ltd. URL: http://www.ibl-japan.co.jp E-Mail: do-ibl@ibl-japan.co.jp