

CD47 Ab-2 (Clone B6H12.2)

Mouse Monoclonal Antibody

Cat. #MS-1302-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Purified Ab with BSA and Azide)

Cat. #MS-1302-P1ABX or -PABX (0.1ml or 0.2ml at 1.0mg/ml) (Purified Ab without BSA and Azide)

Description: CD47 antigen, also known as integrin associated-protein (IAP), is expressed on all hematopoietic cells, including leukocytes, platelets and erythrocytes. It is also expressed on epithelial cells, endothelial cells, fibroblasts and many tumor cell lines. CD47 may play a role as a signal transducer in the regulation of cation fluxes across cell membranes and in the chemotactic and adhesive interactions of leukocytes with endothelial cells.

Comments: Ab-2 blocks binding of SIRPα and in assays of integrin association.

Mol. Wt. of Antigen: 47-52kDa (reduced) and 45-50.5, 110kDa (non-reduced)

Epitope: Ig domain

Species Reactivity: Human. Others-not known.

Clone Designation: B6H12.2

Ig Isotype / Light Chain: IgG₁ / κ

Immunogen: Intact CD47 purified from placenta.

Applications and Suggested Dilutions:

- Blocks binding of SIRPα^{4,5}
- Inhibits in assays in which CD47-integrin association is required^{6,7,8}
- Flow Cytometry
- Immunofluorescence (Methanol fixed only)
- Immunoprecipitation (Native only, Use Protein G)
(Ab 2µg/mg protein lysate)

The optimal dilution for a specific application should be determined by the investigator.

Positive Control: Tonsil

Cellular Localization: Cell membrane

Supplied As: 200µg/ml of antibody purified from ascites fluid by Protein G chromatography. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09%

sodium azide. Also available without BSA and azide at 1mg/ml,

Storage and Stability:

Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.

Key References:

1. Brown, E. et al. 1990 J. Cell Biol. 111:2785.
2. Kishimoto, T. et al 1998. Leucocyte Typing VI: Garland Press, London.
3. Schlossman, S. et al. 1995. Leucocyte Typing V: Oxford University Press, New York.
4. Yoshida, et al. (2002) J Immunol, 168::3213-20.
5. Latour et al. (2001) J Immunol, 167:2547-54.
6. J. Cell Biol, 135: 533-544, (1996).
7. J. Cell Biol, 134: 1313-1322, (1996).
8. J Immunol, 163:6078-6085, (1999).

Limitations and Warranty:

Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. NeoMarkers is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

Material Safety Data:

This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

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