

6-Histidine (Epitope Tagging) Ab-1 (Clone 4D11)

Mouse Monoclonal Antibody

Cat. #MS-667-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Purified Ab with BSA and Azide)

Cat. #MS-667-P1ABX or -PABX (0.1ml or 0.2ml at 1.0mg/ml) (Purified Ab without BSA and Azide)

Description: Insertion of a 6-Histidine tag creates a stable fusion product that does not interfere with the bioactivity of the protein or with the biodistribution of the His-tagged product. Such proteins are purified by immobilized metal ion affinity chromatography which makes use of its high affinity for transition metal ion.

Comments: Ab-1 recognizes hexa-histidine epitope both at the N- or C-terminus. Ab-1 can be used as a molecular handle for any recombinant protein expressed in a vector which contains a six histidine stretch adjacent to the restriction sites Bam HI which is a common motif in several commercially available expression plasmids.

Epitope: HHHHHHGS

Species Reactivity: All species.

Clone Designation: 4D11

Ig Isotype/Light Chain: IgG_{2a} / κ

Immunogen: A His-tagged recombinant protein.

Applications and Suggested Dilutions:

- Affinity Purification
(For conjugation, order Ab without BSA)
- Immunofluorescence
- Western Blotting (Not verified)

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

Positive Control: Hexa-histidine fusion protein.

Cellular Localization: Depends upon the localization of the parent protein tagged with hexa-histidine.

Supplied As: 200µg/ml antibody purified from the ascites fluid by Protein A 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. EMBO J 14(16):3883-3894 (1995).

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:

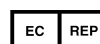
This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. 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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