

CD44 Std. / HCAM Ab -2 (Clone 5F12)

Mouse Monoclonal Antibody

Cat. #MS-178-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Purified Ab with BSA and Azide)**Cat. #MS-178-P1ABX or -PABX (0.1ml or 0.2ml at 1.0mg/ml)** (Purified Ab without BSA and Azide)**Please note this data sheet has been changed effective December 6, 2011**

Description: CD44 is a cell surface glycoprotein expressed on lymphocytes, monocytes, and granulocytes. CD44 is also known as homing cell adhesion molecule (H-CAM), Phagocytic glycoprotein-1 (PgP-1), ECM-III, HUTCH-1, or Hermes-1. CD44 has been implicated in cell migration, in lymphocyte homing, and in tumor metastasis. Ligand for CD44 is hyaluronan of extracellular matrix.

Comments: Ab-2 blocks the binding of hyaluronic acid to CD44 receptor¹.

Mol. Wt. of Antigen: 80-95kDa

Epitope: Partially sensitive to trypsin

Species Reactivity: Human. Does not react with rat. Others-not known.

Clone Designation: 5F12

Ig Isotype: IgG₁

Immunogen: EBV transformed normal human B-lymphocytes.

Applications:

- Blocks the binding of hyaluronic acid to CD44 receptor¹
- Flow Cytometry
- Immunofluorescence

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

Positive Control: Tonsil or lymph node.

Cellular Localization: Cell membrane

Supplied As:

200µg/ml antibody purified from the 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. Liao HX *et al.* Journal of Immunology, 1993, 151(11):6490-9.

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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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