CD44 Std. / HCAM Ab-4 (Clone 156-3C11)

Mouse Monoclonal Antibody

Cat. #MS-668-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Purified Ab with BSA and Azide)
Cat. #MS-668-P1ABX or -PABX (0.1ml or 0.2ml at 1.0mg/ml) (Purified Ab without BSA and Azide)
Cat. #MS-668-B0, -B1, or -B (0.1ml or 0.5ml or 1.0ml at 200µg/ml) (Biotin-Labeled Ab with BSA and Azide)
Cat. #MS-668-R7 (7.0ml) (Ready-to-Use for Immunohistochemistry)
Cat. #MS-668-PCS (5 Slides) (Positive Control for Histology)
Cat. #MS-668-PCL (0.1ml) (Positive Control for Western Blot)

Please note this data sheet has been changed effective December 8, 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, HUCHT-1, or Hermes-1. CD44 has been implicated in cell migration, in lymphocyte homing, and in tumor metastasis.

Comments: Ab-4 reacts with red cells pretreated with 2-aminoethylisothiouronium bromide (AET).1 Digestion of intact erythrocytes by trypsin treatment leaves a 50-54kDa protein fragment attached to the membrane, while chymotrypsin leaves a somewhat similarly sized 51-56kDa component that are recognized by Ab-4.1 This antibody enhances IL-2 production by CD2-transfected murine hybridoma stimulated by JY cells while it has no significant effect on IL-2 production by Jurkat cells stimulated with CD3, PMA, or CD2.1 Ab-4 enhances proliferation of PBL stimulated with CD2.1

Mol. Wt. of Antigen: 80-95kDa

Epitope: Resistant to digestion by trypsin and chymotrypsin.1

Species Reactivity: Human,1 Baboon,1 and Green Monkey.1 Does not react with rat. Others-not-tested.

Clone Designation: 156-3C11

Ig Isotype: IgG2a

Immunogen: Stimulated human leukocytes.

Applications and Suggested Dilutions:
- Flow Cytometry
- Immunoprecipitation (Native verified)
  (Use Protein A) (Ab 2µg/mg protein lysate)
- Western Blotting (Ab 1-2µg/ml for 2hrs at RT)
- Immunohistochemistry (Formalin/paraffin)
  (Use Ab 1-2µg/ml for 30 min at RT)
  * [Staining of formalin-fixed tissues REQUIRES boiling tissue sections in 10mM citrate buffer, pH 6.0, (Lab Vision Cat. #AP-9003), for 10-20 min followed by cooling at RT for 20 min.]

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

Positive Control: HUVEC or HeLa cells. Tonsil, Esophageal Ca., Breast Ca., and Squamous Cell Ca.

Cellular Localization: Cell membrane

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.

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, or Prediluted antibody which is ready-to-use for staining of formalin-fixed, paraffin-embedded tissues.

Key References:

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. Lab Vision 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
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volume of running water to avoid deposits forming in metal drainage pipes.

For Research Use Only

Suggested References:
4. Abbasi AM; Chester KA; Talbot IC; Macpherson AS; Boxer G; Forbes A; Malcolm AD; Begent RH. CD44 is associated with proliferation in normal and neoplastic human colorectal epithelial cells. European Journal of Cancer, 1993, 143(3):867-74.
7. Fukazawa H; Yoshida K; Ichinohasama R; Sawai T; Hiromatsu Y; Mori K; Kikuchi K; Aizawa Y; Abe K; Wall JR. Expression of the Hermes-1 (CD44) and ICAM-1 (CD54) molecule on the surface of thyroid cells from patients with Graves' disease. Thyroid, 1993, 3(4):285-9.