

Rat anti-Mouse CD49e Monoclonal Antibody | anti-CD49e antibody

Anti-Ms CD49e Purified Azide Free

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA129070	Rat	Mouse	Immunohistochemistry, Flow Cytometry, Functional Assay, Functional Assay, Immunocytochemistry

PRODUCT SYNONYMS

CD49e; Monoclonal Antibody; Anti-Ms CD49e Purified Azide Free; ITGA5; VLA-5 alpha; FNRA; integrin alpha 5; anti-CD49e antibody

PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rat IgG2a kappa
Clone Number	5H10-27 (MFR5)
Specificity	The rat monoclonal antibody 5H10-27 (MFR5) recognizes an extracellular epitope of murine CD49e, a 135kDa protein serving as VLA-5 alpha chain, expressed on thymocytes, activated T cells, splenic B cells, and mast cells.
Purity/Purification	Purified by protein-A affinity chromatography
Form/Format	Purified Azide Free. Azide free phosphate buffered saline (PBS) solution, 0.2um filter sterilized
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-CD49e antibody	IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), FA (Functional Assay), ICC (Immunocytochemistry)
Immunogen	C57BL/6 x A/J)F1 murine mast cell line
Preparation and Storage	Store at 2-8 degree C. Do not freeze. Do not use after expiration date stamped on the label.

ADDITIONAL INFORMATION

Related Product Information for anti-CD49e antibody	CD49e, the alpha 5 integrin, noncovalently associates with the beta 1 integrin (CD29) to form VLA-5 integrin complex. CD49e itself is composed of two disulfide-linked chains of 135kDa and 25kDa. VLA-5 binds to RGD sequence of fibronectin, and to neural adhesion molecule L1. It is important in maintaining the integrity of endothelial monolayers, in monocyte migration into the extracellular tissues, and it also provides a co-stimulatory signal to T cells and enhances receptor and complement receptor-mediated phagocytosis.
References	*van der Loo JC, Xiao X, McMillin D, Hashino K, Kato I, Williams DA: VLA-5 is expressed by mouse and human long-term repopulating hematopoietic cells and mediates adhesion to extracellular matrix protein fibronectin. J Clin Invest. 1998 Sep 1;102(5):1051-61., URL: http://www.ncbi.nlm.nih.gov/pubmed/term=mcmillan+ ,*Sampaio AL, Zahn G, Leoni G, Vossmeier D, Christner C, Marshall JF, Perretti M: Inflammation-dependent alpha 5 beta 1 (very late antigen-5) expression on leukocytes reveals a Functional Application (FUNC)tional role for this integrin in acute peritonitis. J Leukoc Biol. 2010 May;87(5):877-84., URL: http://www.ncbi.nlm.nih.gov/pubmed/12775569 ,*Plett PA, Frankovitz SM, Orschell CM: Distribution of marrow repopulating cells between bone marrow and spleen early after transplantation. Blood. 2003 Sep 15;102(6):2285-91., URL: http://www.ncbi.nlm.nih.gov/pubmed/12775569

NCBI AND UNIPROT INFORMATION

NCBI GeneID	16402
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UniProt Accession #	P11688
UniProt Protein Name	Integrin alpha-5
UniProt Gene Name	Itga5
UniProt Entry Name	ITA5_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd49e-antibody-clone-5h10-27-mfr5-immunohistochemistry-flow-cytometry-functional-assay-immunocytochemistry-elisa/129070>