

Rabbit anti-Human CD9 Polyclonal Antibody | anti-CD9 antibody

CD9 Antibody (N-term)

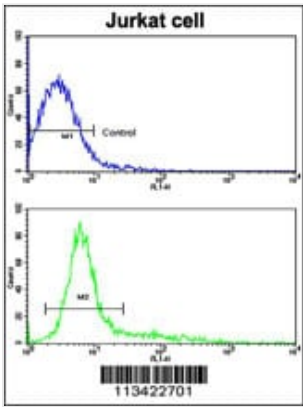
CATALOG # AAA290143	HOST Rabbit	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay, ELISA, Western Blot
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PRODUCT SYNONYMS

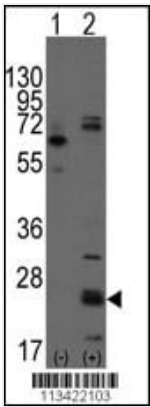
CD9; Polyclonal Antibody; CD9 Antibody (N-term); CD9 antigen; 5H9 antigen; Cell growth-inhibiting gene 2 protein; Leukocyte antigen MIC3; Motility-related protein; MRP-1; Tetraspanin-29; Tspan-29; p24; MIC3; TSPAN29; anti-CD9 antibody

PRODUCT SPECIFICATIONS

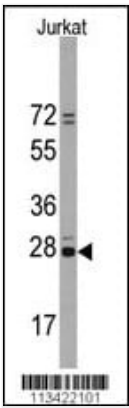
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This CD9 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 21-51 amino acids from the N-terminal region of human CD9.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Sequence Positions	21-51
Sequence Length	228
Applicable Applications for anti-CD9 antibody	FCM/FACS (Flow Cytometry), ELISA, WB (Western Blot)
Clone Names	RB13422
Function	Integral membrane protein associated with integrins, which regulates different processes, such as sperm-egg fusion, platelet activation and aggregation, and cell adhesion(PubMed: , PubMed:14575715, PubMed:). Present at the cell surface of oocytes and plays a key role in sperm-egg fusion, possibly by organizing multiprotein complexes and the morphology of the membrane required for the fusion (By similarity). Acts as a receptor for PSG17 (By similarity). Involved in platelet activation and aggregation (PubMed:). Regulates paranodal junction formation (By similarity). Involved in cell adhesion, cell motility and tumor metastasis (PubMed: , PubMed:7511626).
Cellular Location	Cell membrane; Multi-pass membrane protein Membrane; Multi-pass membrane protein. Secreted, exosome {ECO:0000250 UniProtKB:P40240}. Note=Present at the cell surface of oocytes. Accumulates in the adhesion area between the sperm and egg following interaction between IZUMO1 and its receptor IZUMO1R/JUNO. {ECO:0000250 UniProtKB:P40240}
Tissue Location	Detected in platelets (at protein level) (PubMed:19640571). Expressed by a variety of hematopoietic and epithelial cells (PubMed:19640571).
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



FCM/FACS (Flow Cytometry)
Flow cytometric analysis of jurkat cells using CD9 Antibody (N-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



WB (Western Blot)
Western blot analysis of CD9 (arrow) using rabbit polyclonal CD9 Antibody (N-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the CD9 gene (Lane 2) (Origene Technologies).



WB (Western Blot)
Western blot analysis of CD9 Antibody (N-term) in Jurkat cell line lysates (35ug/lane). CD9 (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-CD9 antibody	CD9 is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. This protein is a cell surface glycoprotein that is known to complex with integrins and other transmembrane 4 superfamily proteins. It can modulate cell adhesion and migration and also trigger platelet activation and aggregation. In addition, the protein appears to promote muscle cell fusion and support myotube maintenance.
Product Categories/Family for anti-CD9 antibody	Cardiovascular; Developmental Biology; Metabolism; Signal Transduction
References	Ovalle,S., Int. J. Cancer 121 (10), 2140-2152 (2007) Kovalenko,O.V., Mol. Cell Proteomics 6 (11), 1855-1867 (2007) Abache,T., J. Cell. Biochem. 102 (3), 650-664 (2007) Horejsi,V., FEBS Lett. 288 (1-2), 1-4 (1991)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502693
NCBI GeneID	928
NCBI Accession #	NP_001760.1

NCBI GenBank Nucleotide #	NM_001769.3
UniProt Accession #	P21926 ; Q5J7W6 ; Q96ES4 ; D3DUQ9
NCBI Official Full Name	CD9 antigen
NCBI Official Synonym Full Names	CD9 molecule
NCBI Official Symbol	CD9
NCBI Official Synonym Symbols	MIC3; MRP-1; BTCC-1; DRAP-27; TSPAN29; TSPAN-29
NCBI Protein Information	CD9 antigen
UniProt Protein Name	CD9 antigen
UniProt Gene Name	CD9
UniProt Synonym Gene Names	MIC3; TSPAN29; MRP-1; Tspan-29
UniProt Entry Name	CD9_HUMAN

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/polyclonal/cd9-antibody-flow-cytometry-western-blot-elisa/290143>