CD9 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	CD9, Blocking Peptide
Full Product Name	CD9 Blocking Peptide
Product Gene Name	CD9 blocking peptide
Product Synonym Names	Tetraspanin 29; 5H9; 5H9 antigen; Antigen defined by monoclonal antibody 602 29; Antigen defined by monoclonal antibody 60229; BA-2/p24 antigen; BA2; BTCC 1; BTCC1; CD9; CD9 antigen; CD9 antigen p24; CD9 molecule; CD9_HUMAN; Cell growth inhibiting gene 2 protein; Cell growth-inhibiting gene 2 protein; DRAP 27; DRAP27; GIG2; Growth inhibiting gene 2 protein; Leukocyte antigen MIC3; MIC3; Motility related protein; Motility-related protein; MRP 1; MRP-1; MRP1; p24; p24 antigen; Tetraspanin-29; Tspan 29; Tspan-29; TSPAN29
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	CD9 peptide (MBS9625937) is used for blocking the activity of CD9 antibody (MBS9607221)
Molecular Weight	25416 MW
OMIM	143030
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for CD9 blocking peptide	Blocking/Control
Related Product Information for CD9 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of CD9 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CD9 purchase	MBS9625937 is a blocking peptide targeting CD9.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD9. It may not necessarily be applicable to this product.

NCBI GI #	1057867401
NCBI GeneID	928
NCBI Accession #	NP_001317241.1
UniProt Primary Accession #	P21926

UniProt Secondary Accession #	Q5J7W6; Q96ES4; D3DUQ9
UniProt Related Accession #	P21926
GenBank Nucleotide #	NM_001330312.1
NCBI Official Full Name	CD9 antigen isoform 2
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
UniProt Protein Name	CD9 antigen
UniProt Synonym Protein Names	5H9 antigen; Cell growth-inhibiting gene 2 protein; Leukocyte antigen MIC3; Motility-related protein; MRP-1; Tetraspanin-29; Tspan-29; p24
Protein Family	CD9 antigen
UniProt Gene Name	CD9
UniProt Synonym Gene Names	MIC3; TSPAN29; MRP-1; Tspan-29
UniProt Entry Name	CD9_HUMAN
NCBI Protein Information	CD9 antigen
NCBI Summary for CD9	This gene encodes a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Tetraspanins are cell surface glycoproteins with four transmembrane domains that form multimeric complexes with other cell surface proteins. The encoded protein functions in many cellular processes including differentiation, adhesion, and signal transduction, and expression of this gene plays a critical role in the suppression of cancer cell motility and metastasis. [provided by RefSeq, Jan 2011]
UniProt Comments for CD9	CD9: Involved in platelet activation and aggregation. Regulates paranodal junction formation. Involved in cell adhesion, cell motility and tumor metastasis. Required for sperm-egg fusion. Belongs to the tetraspanin (TM4SF) family. Protein type: Motility/polarity/chemotaxis; Membrane protein, multi-pass; Cell adhesion; Membrane protein, integral Chromosomal Location of Human Ortholog: 12p13.3 Cellular Component: extracellular space; platelet alpha granule membrane; focal adhesion; integral to plasma membrane; apical plasma membrane; plasma membrane; vesicle; external side of plasma membrane Molecular Function: integrin binding; protein binding Biological Process: negative regulation of cell proliferation; platelet activation; platelet degranulation; fusion of sperm to egg plasma membrane; single fertilization; pathogenesis; brain development; cell adhesion; cell motility; blood coagulation; oligodendrocyte development; response to water deprivation; multicellular organism reproduction; paranodal junction assembly
Research Articles on CD9	**1.** CD9 stabilizes gp130 by blocking its ubiquitin-dependent lysosomal degradation to promote the IL6-gp130-bone marrow X-linked non-receptor tyrosine kinase-STAT3 signaling for maintaining GSC selfrenewal and tumorigenic capacity.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/blocking-peptide/cd9/9625937