

CD9 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP1482a**Specification**

CD9 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [P21926](#)**CD9 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 928**Other Names**

CD9 antigen, 5H9 antigen, Cell growth-inhibiting gene 2 protein, Leukocyte antigen MIC3, Motility-related protein, MRP-1, Tetraspanin-29, Tspan-29, p24, CD9, CD9, MIC3, TSPAN29

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP1482a](/product/products/AP1482a) was selected from the N-term region of human CD9. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CD9 Antibody (N-term) Blocking Peptide - Protein Information**Name** CD9 {ECO:0000303|PubMed:1840589, ECO:0000312|HGNC:HGNC:1709}**Function**

Integral membrane protein associated with integrins, which regulates different processes, such as sperm-egg fusion, platelet activation and aggregation, and cell adhesion (PubMed:[8478605](http://www.uniprot.org/citations/8478605), PubMed:[14575715](http://www.uniprot.org/citations/14575715), PubMed:[18541721](http://www.uniprot.org/citations/18541721)). 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). In myoblasts, associates with CD81 and PTGFRN and inhibits myotube fusion during muscle regeneration (By similarity). In macrophages, associates with CD81 and beta-1 and beta-2 integrins, and prevents macrophage fusion into multinucleated giant cells specialized in ingesting complement-opsonized large particles (PubMed:[18541721](#)).

href="http://www.uniprot.org/citations/12796480" target="_blank">12796480). Also prevents the fusion between mononuclear cell progenitors into osteoclasts in charge of bone resorption (By similarity). Acts as a receptor for PSG17 (By similarity). Involved in platelet activation and aggregation (PubMed:18541721). Regulates paranodal junction formation (By similarity). Involved in cell adhesion, cell motility and tumor metastasis (PubMed:8478605, PubMed:7511626).

Cellular Location

Cell membrane; Multi-pass membrane protein. Membrane; Multi-pass membrane protein. Secreted, extracellular 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).

CD9 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

CD9 Antibody (N-term) Blocking Peptide - Images

CD9 Antibody (N-term) Blocking Peptide - Background

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.

CD9 Antibody (N-term) Blocking Peptide - 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)