

ITGA5 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP5519b**Specification**

ITGA5 Antibody (C-term) Blocking peptide - Product Information

Primary Accession [P08648](#)
Other Accession [NP_002196](#)

ITGA5 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 3678

Other Names

Integrin alpha-5, CD49 antigen-like family member E, Fibronectin receptor subunit alpha, Integrin alpha-F, VLA-5, CD49e, Integrin alpha-5 heavy chain, Integrin alpha-5 light chain, ITGA5, FNRA

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.

ITGA5 Antibody (C-term) Blocking peptide - Protein Information

Name ITGA5 ([HGNC:6141](#))

Synonyms FNRA

Function

Integrin alpha-5/beta-1 (ITGA5:ITGB1) is a receptor for fibronectin and fibrinogen. It recognizes the sequence R-G-D in its ligands. ITGA5:ITGB1 binds to PLA2G2A via a site (site 2) which is distinct from the classical ligand-binding site (site 1) and this induces integrin conformational changes and enhanced ligand binding to site 1 (PubMed: [18635536](http://www.uniprot.org/citations/18635536), PubMed: [25398877](http://www.uniprot.org/citations/25398877)). ITGA5:ITGB1 acts as a receptor for fibrillin-1 (FBN1) and mediates R-G-D-dependent cell adhesion to FBN1 (PubMed: [12807887](http://www.uniprot.org/citations/12807887), PubMed: [17158881](http://www.uniprot.org/citations/17158881)). ITGA5:ITGB1 acts as a receptor for fibronectin (FN1) and mediates R-G-D-dependent cell adhesion to FN1 (PubMed: [33962943](http://www.uniprot.org/citations/33962943)). ITGA5:ITGB1 is a receptor for IL1B and binding is essential for IL1B signaling (PubMed: [29030430](http://www.uniprot.org/citations/29030430)). ITGA5:ITGB3 is a receptor for soluble CD40LG and is required for CD40/CD40LG signaling (PubMed: [29030430](#)).

href="http://www.uniprot.org/citations/31331973" target="_blank">31331973).

Cellular Location

Cell membrane; Single-pass type I membrane protein. Cell junction, focal adhesion

Tissue Location

Expressed in placenta (at protein level).

ITGA5 Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

ITGA5 Antibody (C-term) Blocking peptide - Images**ITGA5 Antibody (C-term) Blocking peptide - Background**

The product of this gene belongs to the integrin alphachain family. Integrins are heterodimeric integral membraneproteins composed of an alpha chain and a beta chain. This geneencodes the integrin alpha 5 chain. Alpha chain 5 undergoespost-translational cleavage in the extracellular domain to yielddisulfide-linked light and heavy chains that join with beta 1 toform a fibronectin receptor. In addition to adhesion, integrins areknown to participate in cell-surface mediated signalling. [providedby RefSeq].

ITGA5 Antibody (C-term) Blocking peptide - References

Kim, S., et al. Carcinogenesis 31(4):597-606(2010)Ryu, M.H., et al. Biochem. Biophys. Res. Commun. 393(1):11-15(2010)Yang, Y., et al. J. Biol. Chem. 285(1):131-141(2010)Lowin, T., et al. Arthritis Rheum. 60(12):3623-3632(2009)