

ITGA5 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP12204c**Specification**

ITGA5 Antibody (Center) Blocking peptide - Product InformationPrimary Accession [P08648](#)**ITGA5 Antibody (Center) 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 (Center) 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, PubMed:25398877). ITGA5:ITGB1 acts as a receptor for fibrillin-1 (FBN1) and mediates R-G-D-dependent cell adhesion to FBN1 (PubMed:12807887, PubMed:17158881). ITGA5:ITGB1 acts as a receptor for fibronectin (FN1) and mediates R-G-D-dependent cell adhesion to FN1 (PubMed:33962943). ITGA5:ITGB1 is a receptor for IL1B and binding is essential for IL1B signaling (PubMed:29030430). ITGA5:ITGB3 is a receptor for soluble CD40LG and is required for CD40/CD40LG signaling (PubMed: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 (Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

ITGA5 Antibody (Center) Blocking peptide - Images**ITGA5 Antibody (Center) 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 (Center) Blocking peptide - References

Hutton, M.L., et al. Infect. Immun. 78(11):4523-4531(2010)Fang, Z., et al. J. Cell. Biochem. 110(5):1130-1141(2010)Lobert, V.H., et al. Dev. Cell 19(1):148-159(2010)Caicedo-Carvajal, C.E., et al. PLoS ONE 5 (7), E11830 (2010) :Dingemans, A.M., et al. Mol. Cancer 9, 152 (2010) :