10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ITGA5/Integrin Alpha 5/CD49e Antibody (clone 10F6)

Mouse Monoclonal Antibody
Catalog # ALS13175

Specification

ITGA5/Integrin Alpha 5/CD49e Antibody (clone 10F6) - Product Information

Application	**IHC**
Primary Accession	P08648
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**115kDa KDa**

ITGA5/Integrin Alpha 5/CD49e Antibody (clone 10F6) - 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

Target/Specificity
Human ITGA5

Reconstitution & Storage
Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions
ITGA5/Integrin Alpha 5/CD49e Antibody (clone 10F6) is for research use only and not for use in diagnostic or therapeutic procedures.

ITGA5/Integrin Alpha 5/CD49e Antibody (clone 10F6) - 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

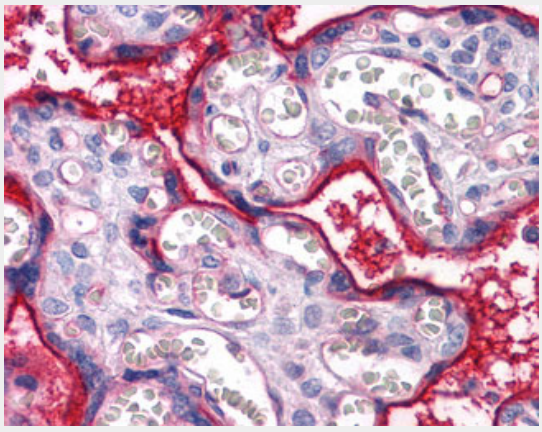
Tissue Location
Expressed in placenta (at protein level).

ITGA5/Integrin Alpha 5/CD49e Antibody (clone 10F6) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ITGA5/Integrin Alpha 5/CD49e Antibody (clone 10F6) - Images



Anti-ITGA5 / Integrin Alpha 5 antibody IHC of human placenta.

ITGA5/Integrin Alpha 5/CD49e Antibody (clone 10F6) - Background

Integrin alpha-5/beta-1 is a receptor for fibronectin and fibrinogen. It recognizes the sequence R-G-D in its ligands. In case of HIV-1 infection, the interaction with extracellular viral Tat protein seems to enhance angiogenesis in Kaposi's sarcoma lesions.

ITGA5/Integrin Alpha 5/CD49e Antibody (clone 10F6) - References

Argraves W.S.,et al.J. Cell Biol. 105:1183-1190(1987).
Birkenmeier T.M.,et al.J. Biol. Chem. 266:20544-20549(1991).
Fitzgerald L.A.,et al.Biochemistry 26:8158-8165(1987).
Argraves W.S.,et al.J. Biol. Chem. 261:12922-12924(1986).

Takada Y.,et al.Proc. Natl. Acad. Sci. U.S.A. 84:3239-3243(1987).