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CD49e Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2876b

Specification

CD49e Antibody (C-term) - Product Information

Application	**WB, FC,E**
Primary Accession	P08648
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**114536**
Antigen Region	**796-824**

CD49e Antibody (C-term) - 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
This CD49e antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 796-824 amino acids from the C-terminal region of human CD49e.

Dilution
WB~~1:1000
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
CD49e Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CD49e Antibody (C-term) - 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

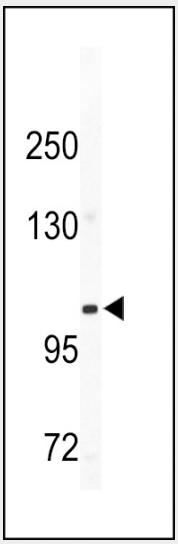
Tissue Location
Expressed in placenta (at protein level).

CD49e Antibody (C-term) - Protocols

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

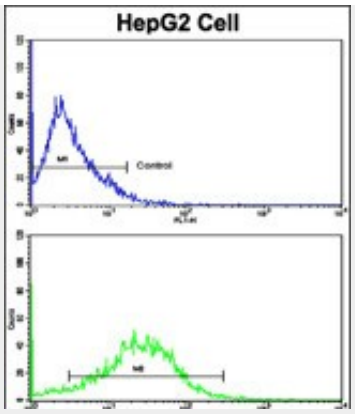
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CD49e Antibody (C-term) - Images



Western blot analysis of CD49e antibody (C-term) (Cat.# AP2876b) in mouse bladder tissue lysates (35ug/lane). CD49e (arrow) was detected using the purified Pab.

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Flow cytometric analysis of HepG2 cells using CD49e Antibody (C-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

CD49e Antibody (C-term) - Background

CD49e belongs to the integrin alpha chain family. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. This protein is the integrin alpha 5 chain. Alpha chain 5 undergoes post-translational cleavage in the extracellular domain to yield disulfide-linked light and heavy chains that join with beta 1 to form a fibronectin receptor. In addition to adhesion, integrins are known to participate in cell-surface mediated signalling.

CD49e Antibody (C-term) - References

Boehmler,A.M., J. Immunol. 182 (11), 6789-6798 (2009)
Okazaki,T., Am. J. Pathol. 174 (6), 2378-2387 (2009)
Schornberg,K.L., Proc. Natl. Acad. Sci. U.S.A. 106 (19), 8003-8008 (2009)