

**CD49e HC Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP51288**

**Specification**

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**CD49e HC Antibody - Product Information**

Application	<b>WB, E</b>
Primary Accession	<a href="#">P08648</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>92 KDa</b>

**CD49e HC Antibody - 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**

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**CD49e HC Antibody - 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: <

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

**Cellular Location**

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

**Tissue Location**

Expressed in placenta (at protein level).

**CD49e HC Antibody - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**CD49e HC Antibody - Images****CD49e HC Antibody - 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.

**CD49e HC Antibody - References**

Argaves 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).  
Argaves 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).