

**ITGA5 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP5519b**

**Specification**

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**ITGA5 Antibody (C-term) - Product Information**

Application	<b>WB, FC,E</b>
Primary Accession	<a href="#">P08648</a>
Other Accession	<a href="#">NP_002196</a>
Reactivity	<b>Human, Mouse</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Antigen Region	<b>796-822</b>

**ITGA5 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 ITGA5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 796-822 amino acids of human ITGA5.

**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 purified through a protein A column, followed by peptide affinity purification.

**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**

ITGA5 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**ITGA5 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

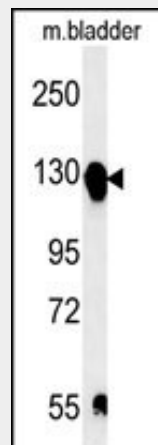
Expressed in placenta (at protein level).

### ITGA5 Antibody (C-term) - Protocols

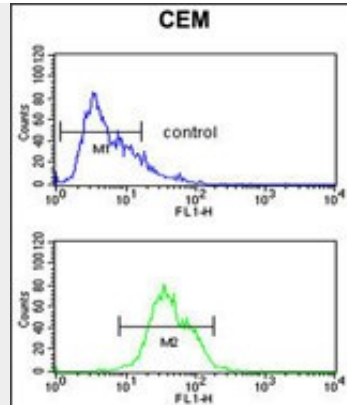
Provided below are standard protocols that you may find useful for product applications.

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

### ITGA5 Antibody (C-term) - Images



ITGA5 Antibody (C-term) (Cat. #AP5519b) western blot analysis in mouse bladder tissue lysates (15ug/lane). This demonstrates the ITGA5 antibody detected ITGA5 protein (arrow).



ITGA5 Antibody (C-term) (Cat. #AP5519b) flow cytometric analysis of CEM cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### **ITGA5 Antibody (C-term) - Background**

The product of this gene belongs to the integrin alpha chain family. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. This gene encodes 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. [provided by RefSeq].

### **ITGA5 Antibody (C-term) - 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)

### **ITGA5 Antibody (C-term) - Citations**

- [Calycosin-7-O-β-D-glucoside promotes oxidative stress-induced cytoskeleton reorganization through integrin-linked kinase signaling pathway in vascular endothelial cells.](#)