

Product datasheet for **AM06388SU-N**

Integrin alpha 5 (ITGA5) Mouse Monoclonal Antibody [Clone ID: 10F6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	10F6
Applications:	ELISA, FC, IHC, WB
Recommended Dilution:	Western Blot: 1/500 - 1/2000. Immunohistochemistry on paraffin sections: 1/200 - 1/1000. Flow cytometry: 1/200 - 1/400. ELISA: 1/10000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of human ITGA5 expressed in E. Coli.
Specificity:	This antibody reacts to ITGA5.
Formulation:	State: Ascites State: Ascitic fluid containing 0.03% sodium azide.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	114 kDa
Gene Name:	integrin subunit alpha 5
Database Link:	Entrez Gene 3678 Human P08648



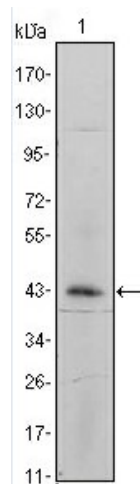
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Background:

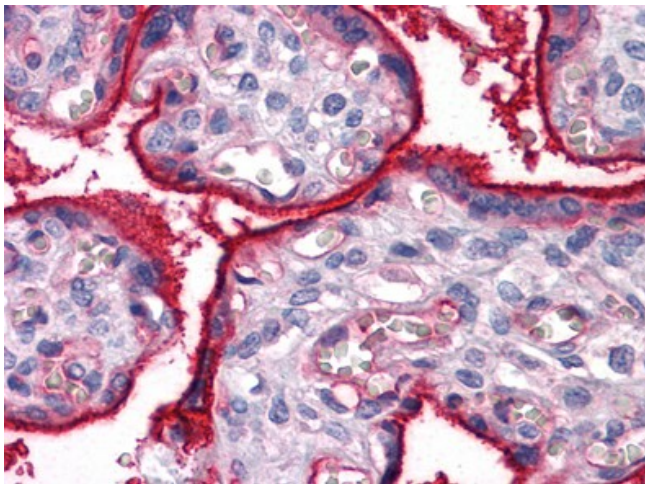
The product of this gene belongs to the integrin alpha chain family. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. This gene encodes the integrin alpha 5 chain. Alpha chain 5 undergoes post-translational cleavage in the extracellular domain to yield 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. Integrin alpha 5 is a heterodimer that associates noncovalently with CD29/integrin beta 1 subunit to form the alpha-5-beta-1 very late antigen (VLA-5) complex. VLA-5 is a fibronectin receptor that is expressed on thymocytes, T-cells, monocytes and platelets. It is also found on very early B-cells and activated B-cells. VLA-5-mediated binding to fibronectin sends a costimulatory signal to T-cells and enhances Fc-gamma-R- and complement receptor-mediated phago-cytosis. It is also involved in monocyte migration into extracellular tissues.

Synonyms:

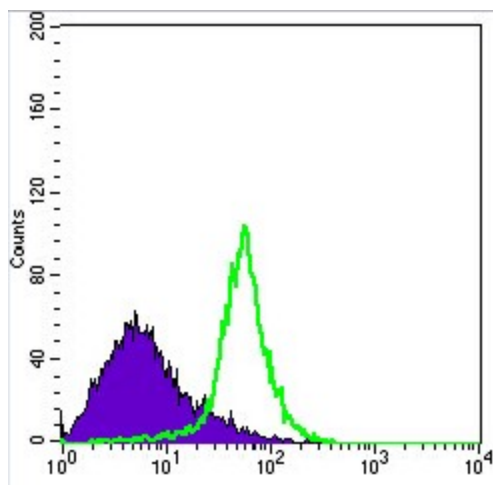
Integrin alpha-5, Fibronectin receptor subunit alpha, Integrin alpha-F, VLA-5, VLA5, FNRA

Product images:

Western blot analysis using ITGA5 mouse mAb against ITGA5-hlgGfc transfected HEK293 cell lysate.



Immunohistochemical analysis of paraffin-embedded human Placenta tissues using ITGA5 mouse mAb



Flow cytometric analysis of HeLa cells using ITGA5 mouse mAb (green) and negative control (purple).