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Datasheet for ABIN3043256  
**anti-ITGA5 antibody (AA 787-992)**

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### Overview

Quantity:	100 µg
Target:	ITGA5
Binding Specificity:	AA 787-992
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ITGA5 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS)

### Product Details

Purpose:	Rabbit IgG polyclonal antibody for Integrin alpha-5(ITGA5) detection. Tested with WB, FCM in Human,Mouse,Rat.
Immunogen:	E.coli-derived human Integrin alpha 5 recombinant protein (Position: E787-E992). Human Integrin alpha 5 shares 86% amino acid (aa) sequence identity with mouse Integrin alpha 5.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Integrin alpha-5(ITGA5) detection. Tested with WB, FCM in Human,Mouse,Rat. Gene Name: integrin, alpha 5 (fibronectin receptor, alpha polypeptide) Protein Name: Integrin alpha-5
Purification:	Immunogen affinity purified.

## Target Details

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Target:	ITGA5
Alternative Name:	ITGA5 ( <a href="#">ITGA5 Products</a> )
Background:	<p>Integrin alpha-5, also known as FNRA or VLA5A, is a protein that in humans is encoded by the ITGA5 gene. The product of this gene belongs to the integrin alpha chain family. Integrins are 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.</p> <p>Synonyms: CD49 antigen-like family member E antibody CD49e antibody Fibronectin Receptor alpha antibody Fibronectin receptor subunit alpha antibody Fibronectin receptor, alpha subunit antibody FNRA antibody Integrin alpha 5 (fibronectin receptor alpha) antibody Integrin alpha-5 antibody Integrin alpha-5 light chain antibody Integrin alpha-F antibody Integrin, alpha 5 (fibronectin receptor, alpha polypeptide) antibody ITA5_HUMAN antibody ITGA 5 antibody ITGA5 antibody Very Late Activation Protein 5 alpha antibody Very late activation protein 5, alpha subunit antibody VLA-5 antibody VLA5 antibody VLA5A antibody</p>
Gene ID:	3678
UniProt:	<a href="#">P08648</a>
Pathways:	<a href="#">Integrin Complex</a>

## Application Details

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Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat, The detection limit for Integrin alpha 5 is approximately 0.25 ng/lane under reducing conditions.</p> <p>Flow Cytometry: Concentration:1-3 µg/1x10<sup>6</sup> cells, Tested Species: Human</p> <p>Notes: Tested Species: Species with positive results.</p> <p>Other applications have not been tested. Optimal dilutions should be determined by end users.</p>
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

## Handling

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Format:	Lyophilized
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## Handling

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Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

## Publications

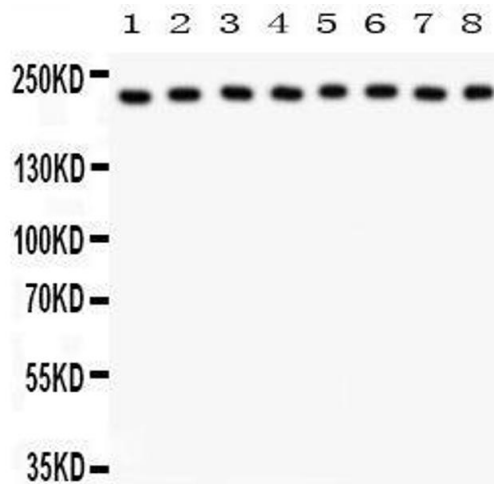
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Product cited in:	<p>Chen, Sun, Liu, Tong, Meng: "Silencing of Paternally Expressed Gene 10 Inhibits Trophoblast Proliferation and Invasion." in: <b>PLoS ONE</b>, Vol. 10, Issue 12, pp. e0144845, (2015) (<a href="#">PubMed</a>).</p> <p>Zhang, Ren, Luo, Fan, Liu, Liang, Ma, Yu, Bai: "A small physiological electric field mediated responses of extravillous trophoblasts derived from HTR8/SVneo cells: involvement of activation of focal adhesion kinase signaling." in: <b>PLoS ONE</b>, Vol. 9, Issue 3, pp. e92252, (2014) (<a href="#">PubMed</a>).</p> <p>Huang, Lian, Chen, Yang, Yang: "Characterization of rat hair follicle stem cells selected by vario magnetic activated cell sorting system." in: <b>Acta histochemica et cytochemica</b>, Vol. 42, Issue 5, pp. 129-36, (2009) (<a href="#">PubMed</a>).</p>
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#### Western Blotting

**Image 1.** Anti- Integrin alpha 5 Picoband antibody, Western blotting All lanes: Anti Integrin alpha 5 at 0.5ug/ml WB: Recombinant Human Integrin alpha 5 Protein 0.5ng Predicted bind size: 39KD Observed bind size: 39KD



#### Western Blotting

**Image 2.** Anti- Integrin alpha 5 Picoband antibody, Western blotting All lanes: Anti Integrin alpha 5 at 0.5ug/ml Lane 1: Rat Brain Tissue Lysate at 50ug Lane 2: Mouse Brain Tissue Lysate at 50ug Lane 3: MM231 Whole Cell Lysate at 40ug Lane 4: HELA Whole Cell Lysate at 40ug Lane 5: JURKAT Whole Cell Lysate at 40ug Lane 6: 293T Whole Cell Lysate at 40ug Lane 7: NEURO Whole Cell Lysate at 40ug Lane 8: PC-12 Whole Cell Lysate at 40ug Predicted bind size: 115KD Observed bind size: 220KD