

Rabbit anti-Human Integrin alpha 3/ITGA3 Polyclonal Antibody | anti-ITGA3 antibody

Anti-Integrin alpha 3/ITGA3 Antibody Picoband

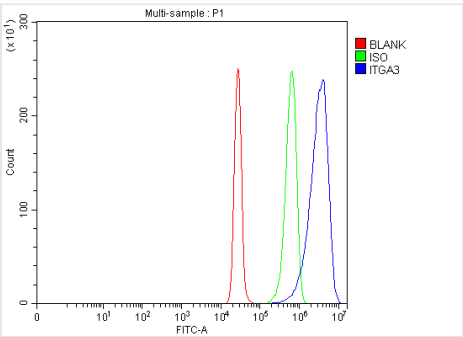
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126269	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

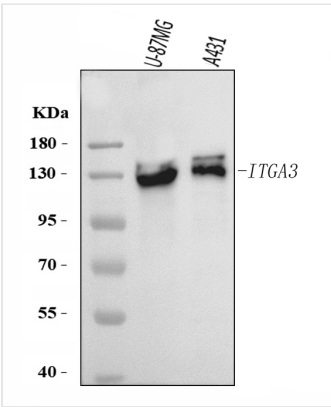
Integrin alpha 3/ITGA3; Polyclonal Antibody; Anti-Integrin alpha 3/ITGA3 Antibody Picoband; anti-ITGA3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-ITGA3 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human Integrin alpha 3/ITGA3 recombinant protein (Position: L96-L324).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of SiHa cells using anti-Integrin Alpha 3/ITGA3 antibody (AAA126269).Overlay histogram showing SiHa cells stained with AAA126269 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Integrin Alpha 3/ITGA3 Antibody (AAA126269, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of Integrin Alpha 3/ITGA3 using anti-Integrin Alpha 3/ITGA3 antibody (AAA126269).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human U-87MG whole cell lysates,Lane 2: human A431 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Integrin Alpha 3/ITGA3 antigen affinity purified polyclonal antibody (#AAA126269) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Integrin Alpha 3/ITGA3 at approximately 130 kDa. The expected band size for Integrin Alpha 3/ITGA3 is at 130 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-ITGA3 antibody	ITGA3(INTEGRIN, ALPHA-3), also called CD49C, VLA3 or GAPB3, is a protein that in humans is encoded by the ITGA3 gene. It is an integrin alpha subunit which is also a member of the family of cell surface adhesion molecules. This gene is mapped to chromosome 17 and its exact cytogenetic location is 17q21.33. ITGA3 makes up half of the alpha3beta1 integrin duplex that plays a role in neural migration and corticogenesis together with beta-1 subunit.A functional link between DAB1 phosphorylation and ITGA3 signaling drives the timely detachment of migrating neurons from radial glial fibers. Expression of human ITGA3 increased the infectivity of virus for Chinese hamster ovary cells. ITGA3 also contains 13 potential N-glycosylation sites, 2 potential cleavage sites, and the 7 N-terminal repeating units characteristic of ITGAs. Recombinant ITGA3 is expressed as a 150-kD protein as the same size as the native protein by the western blot analysis.
Product Categories/Family for anti-ITGA3 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504747
NCBI GeneID	3675
NCBI Accession #	NP_002195.1
NCBI GenBank Nucleotide #	NM_002204.2
UniProt Accession #	P26006; A7E246; B7ZM80; B9EGQ1; D3DTX4; D3DTX5
Molecular Weight	116,612 Da
NCBI Official Full Name	integrin alpha-3 isoform a
NCBI Official Synonym Full Names	integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor)
NCBI Official Symbol	ITGA3

NCBI Official Synonym Symbols	VL3A; CD49C; GAPB3; ILNEB; MSK18; VCA-2; VLA3a; GAP-B3
NCBI Protein Information	integrin alpha-3; FRP-2; galactoprotein B3; VLA-3 subunit alpha; CD49 antigen-like family member C; antigen identified by monoclonal antibody J143; very late activation protein 3 receptor, alpha-3 subunit
UniProt Protein Name	Integrin alpha-3
UniProt Gene Name	ITGA3
UniProt Synonym Gene Names	MSK18; GAPB3
UniProt Entry Name	ITA3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/integrin-alpha-3-itga3-antibody-flow-cytometry-western-blot-elisa/126269>