

Rabbit anti-Human Integrin alpha 2/ITGA2 Polyclonal Antibody | anti-ITGA2 antibody

Anti-Integrin alpha 2/ITGA2 Antibody Picoband

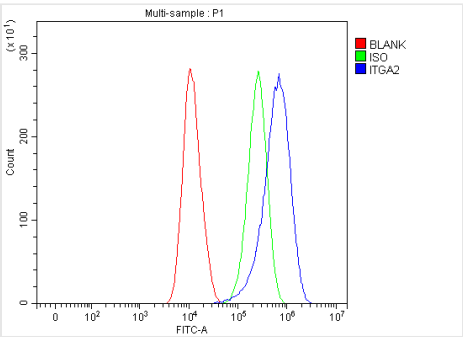
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126190	Rabbit	Human	Western Blot, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

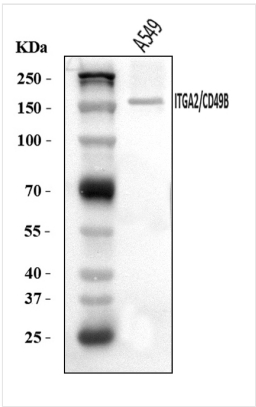
Integrin alpha 2/ITGA2; Polyclonal Antibody; Anti-Integrin alpha 2/ITGA2 Antibody Picoband; anti-ITGA2 antibody

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-ITGA2 antibody	WB (Western Blot), FCM/FACS (Flow Cytometry), ELISA
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human Integrin alpha 2/ITGA2 recombinant protein (Position: E285-S1181).
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 A375 cells using anti-Integrin Alpha 2/ITGA2 antibody (AAA126190).Overlay histogram showing A375 cells stained with AAA126190 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Integrin Alpha 2/ITGA2 Antibody (AAA126190, 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 2/ITGA2 using anti-Integrin Alpha 2/ITGA2 antibody (AAA126190).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 A549 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 2/ITGA2 antigen affinity purified polyclonal antibody (#AAA126190) 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 2/ITGA2 at approximately 165 kDa. The expected band size for Integrin Alpha 2/ITGA2 is at 129 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-ITGA2 antibody	Integrin alpha-2, or CD49b (cluster of differentiation 49b), is a protein which in humans is encoded by the CD49b gene. This gene encodes the alpha subunit of a transmembrane receptor for collagens and related proteins. The encoded protein forms a heterodimer with a beta subunit and mediates the adhesion of platelets and other cell types to the extracellular matrix. Loss of the encoded protein is associated with bleeding disorder platelet-type 9. Antibodies against this protein are found in several immune disorders, including neonatal alloimmune thrombocytopenia. This gene is located adjacent to a related alpha subunit gene. Alternative splicing results in multiple transcript variants.
Product Categories/Family for anti-ITGA2 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	116295258
NCBI GeneID	3673
NCBI Accession #	NP_002194.2
NCBI GenBank Nucleotide #	NM_002203.3
UniProt Accession #	P17301; Q14595
Molecular Weight	129,295 Da
NCBI Official Full Name	integrin alpha-2
NCBI Official Synonym Full Names	integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)
NCBI Official Symbol	ITGA2
NCBI Official Synonym Symbols	BR; GPIa; CD49B; HPA-5; VLA-2; VLAA2

NCBI Protein Information	integrin alpha-2; collagen receptor; platelet antigen Br; platelet glycoprotein GPIa; VLA2 receptor, alpha-2 subunit; CD49 antigen-like family member B; platelet membrane glycoprotein Ia; human platelet alloantigen system 5; very late activation protein 2
UniProt Protein Name	Integrin alpha-2
UniProt Gene Name	ITGA2
UniProt Synonym Gene Names	CD49B; GPIa
UniProt Entry Name	ITA2_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/integrin-alpha-2-itga2-antibody-western-blot-flow-cytometry-elisa/126190>