

Rabbit anti-Human CD41/Integrin Alpha 2B/ITGA2B Polyclonal Antibody | anti-CD41 antibody

Anti-CD41/Integrin Alpha 2B/ITGA2B Antibody Picoband

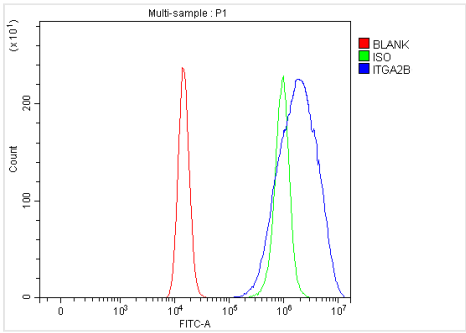
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127035	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

CD41/Integrin Alpha 2B/ITGA2B; Polyclonal Antibody; Anti-CD41/Integrin Alpha 2B/ITGA2B Antibody Picoband; Putative Polycomb group protein ASXL1; additional sex combs like 1; transcriptional regulator; Additional sex combs-like protein 1; ASXL1; KIAA0978; anti-CD41 antibody

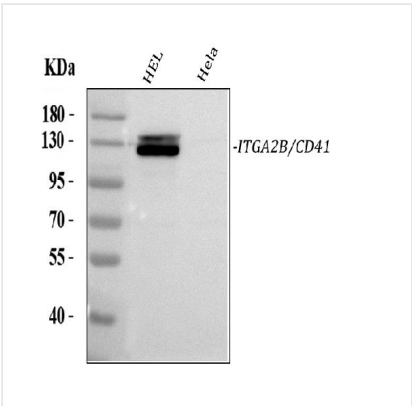
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Widely expressed at low level.Expressed in heart, brain, skeletal muscle, placenta, pancreas, spleen, prostate, small intestine, colon, peripheral blood, leukocytes, bone marrow and fetal liver.Highly expressed in testes.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-CD41 antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human CD41/Integrin Alpha 2B/ITGA2B recombinant protein (Position: A675-R714).
Subcellular Localization	Nucleus
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Probable Polycomb group (PcG) protein involved in transcriptional regulation mediated by ligand-bound nuclear hormone receptors, such as retinoic acid receptors (RARs) and peroxisome proliferator-activated receptor gamma (PPARG). Acts as coactivator of RARA and RXRA through association with NCOA1. Acts as corepressor for PPARG and suppresses its adipocyte differentiation-inducing activity (By similarity). Non-catalytic component of the PR-DUB complex, a complex that specifically mediates deubiquitination of histone H2A monoubiquitinated at 'Lys-119' (H2AK119ub1). Acts as a sensor of N6-methyladenosine methylation on DNA (m6A): recognizes and binds m6A DNA, leading to its ubiquitination and degradation by TRIP12, thereby inactivating the PR-DUB complex and regulating Polycomb silencing.
Preparation and Storage	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.



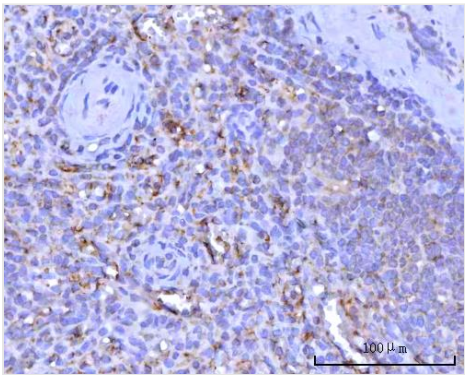
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of HEL cells using anti-CD41/Integrin Alpha 2B/ITGA2B antibody (AAA127035). Overlay histogram showing HEL cells stained with AAA127035 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-CD41/Integrin Alpha 2B/ITGA2B Antibody (AAA127035, 1ug/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 (1ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



WB (Western Blot)

Figure 1. Western blot analysis of CD41/Integrin Alpha 2B/ITGA2B using anti-CD41/Integrin Alpha 2B/ITGA2B antibody (AAA127035). 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 HEL whole cell lysates, Lane 2: human Hela 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-CD41/Integrin Alpha 2B/ITGA2B antigen affinity purified polyclonal antibody (#AAA127035) at 0.5ug/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 CD41/Integrin Alpha 2B/ITGA2B at approximately 125 kDa. The expected band size for CD41/Integrin Alpha 2B/ITGA2B is at 113 kDa.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of CD41/Integrin Alpha 2B/ITGA2B using anti-CD41/Integrin Alpha 2B/ITGA2B antibody (AAA127035). CD41/Integrin Alpha 2B/ITGA2B was detected in a paraffin-embedded section of human spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-CD41/Integrin Alpha 2B/ITGA2B Antibody (AAA127035) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-CD41 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-CD41 antibody	Primary Antibodies; Signal Transduction

References	1. "Entrez Gene: ITGA2B integrin, alpha 2b (platelet glycoprotein IIb of IIb/IIIa complex, antigen CD41)".2. Naik UP, Parise LV (1997). "Structure and function of platelet alpha IIb beta 3.". Curr. Opin. Hematol. 4(5): 317-22.3. Quinn MJ, Byzova TV, Qin J et al. (2004). "Integrin alphaIIbbeta3 and its antagonism.". Arterioscler. Thromb. Vasc. Biol. 23 (6): 945-52.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	88758615
NCBI GeneID	3674
NCBI Accession #	NP_000410.2
NCBI GenBank Nucleotide #	NM_000419.3
UniProt Accession #	P08514; O95366; Q14443; Q17R67; B2RCY8
Molecular Weight	1039
NCBI Official Full Name	integrin alpha-IIb preproprotein
NCBI Official Synonym Full Names	integrin, alpha 2b (platelet glycoprotein IIb of IIb/IIIa complex, antigen CD41)
NCBI Official Symbol	ITGA2B
NCBI Official Synonym Symbols	GT; GTA; CD41; GP2B; HPA3; CD41B; GPIIb; BDPLT2; BDPLT16
NCBI Protein Information	integrin alpha-IIb; GPalpha IIb; platelet-specific antigen BAK; platelet membrane glycoprotein IIb; platelet fibrinogen receptor, alpha subunit
UniProt Protein Name	Integrin alpha-IIb
UniProt Gene Name	ITGA2B
UniProt Synonym Gene Names	GP2B; ITGAB; GPIIb
UniProt Entry Name	ITA2B_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.