

Rabbit ITGB2 Polyclonal Antibody | anti-ITGB2 antibody

ITGB2 Antibody

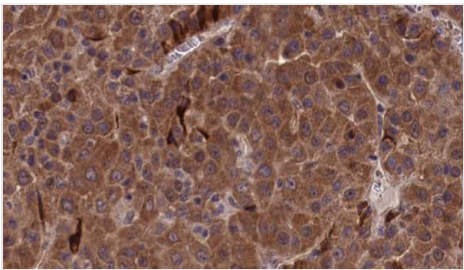
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326651	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

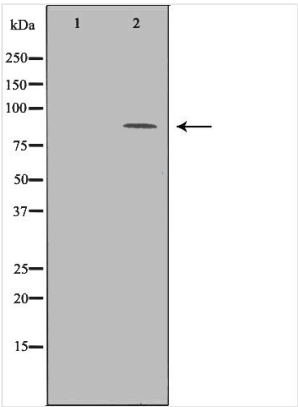
ITGB2; Polyclonal Antibody; ITGB2 Antibody; 95 subunit beta; Beta 2 (antigen CD18 (p95); CD 18; CD18; Cell surface adhesion glycoprotein LFA 1/CR3/P150; 959 beta subunit precursor); Cell surface adhesion glycoproteins LFA 1/CR3/p150; Cell surface adhesion glycoproteins LFA-1/CR3/p150; Complement component 3 receptor 3 and 4 subunit; Complement receptor C3 beta subunit; Complement receptor C3 subunit beta; Integrin beta 2; Integrin beta chain beta 2; Integrin beta-2 (ITGB2); Integrin beta-2; Integrin; beta 2 (complement component 3 receptor 3 and 4 subunit); ITB2_HUMAN; LAD; LCAMB; Leukocyte associated antigens CD18/11A; CD18/11B; CD18/11C; Leukocyte cell adhesion molecule CD18; LFA 1; LFA1; Lymphocyte function associated antigen 1 (LFA1); Lymphocyte function associated antigen 1; MAC 1; MAC1; Macrophage antigen 1 (mac1) beta; MF17; MFI7; OTTHUMP00000115278; OTTHUMP00000115279; OTTHUMP00000115280; OTTHUMP00000115281; OTTHUMP00000115282; anti-ITGB2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ITGB2 antibody detects endogenous levels of total ITGB2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	769
Applicable Applications for anti-ITGB2 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ITGB2
Subcellular Location	Membrane.
Tissue Specificity	Leukocytes (PubMed:23775590). Expressed in neutrophils (at protein level) (PubMed:21193407, PubMed:28807980).
Predicted Cross Reactivity	Pig
Similarity	Pig (82%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA326651 at 1/100 staining Human liver cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts of K562, using ITGB2 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-ITGB2 antibody

Description: In the immune system, integrins have essential roles in leukocyte trafficking and function. These include immune cell attachment to endothelial and antigen-presenting cells, cytotoxicity, and extravasation into tissues (1). Integrin adhesion receptors transduce signals that control complex cell functions which require the regulation of gene expression, such as proliferation, differentiation and survival. Their intracellular domain has no catalytic function, indicating that interaction with other transducing molecules is crucial for integrin-mediated signaling. JAB1 (Jun activation domain-binding protein 1), a coactivator of the c-Jun transcription factor, has been identified as a protein that interacts with the cytoplasmic domain of the beta2 subunit of the alphaL/beta2 integrin LFA-1 (2). Patients with leukocyte adhesion molecule (CD11/CD18, beta 2 integrins) deficiency have structural defects in the common beta subunit (CD18), which prevent heterodimer formation and normal cell surface expression of these receptors, leading to life-threatening bacterial infections (3).

Function: Integrin ITGAL/ITGB2 is a receptor for ICAM1, ICAM2, ICAM3 and ICAM4. Integrins ITGAM/ITGB2 and ITGAX/ITGB2 are receptors for the iC3b fragment of the third complement component and for fibrinogen. Integrin ITGAX/ITGB2 recognizes the sequence G-P-R in fibrinogen alpha-chain. Integrin ITGAM/ITGB2 recognizes P1 and P2 peptides of fibrinogen gamma chain. Integrin ITGAM/ITGB2 is also a receptor for factor X. Integrin ITGAD/ITGB2 is a receptor for ICAM3 and VCAM1. Contributes to natural killer cell cytotoxicity (PubMed:15356110). Involved in leukocyte adhesion and transmigration of leukocytes including T-cells and neutrophils (PubMed:11812992, PubMed:28807980). Triggers neutrophil transmigration during lung injury through PTK2B/PYK2-mediated activation (PubMed:18587400). Integrin ITGAL/ITGB2 in association with ICAM3, contributes to apoptotic neutrophil phagocytosis by macrophages (PubMed:23775590). In association with alpha subunit ITGAM/CD11b, required for CD177-PRTN3-mediated activation of TNF primed neutrophils (PubMed:21193407).

Subunit Structure: Heterodimer of an alpha and a beta subunit (PubMed:20033057). ITGB2 associates with either ITGAL, ITGAM, ITGAX or ITGAD. Found in a complex with CD177 and ITGAM/CD11b (PubMed:21193407, PubMed:28807980). Interacts with FGR (By similarity). Interacts with COPS5 and RANBP9 (PubMed:10766246, PubMed:14722085). Interacts with FLNA (via filamin repeats 4, 9, 12, 17, 19, 21, and 23) (PubMed:19828450). Interacts with THBD (PubMed:27055590).

Post-translational Modifications: Both Ser-745 and Ser-756 become phosphorylated when T-cells are exposed to phorbol esters (PubMed:11700305). Phosphorylation on Thr-758 (but not on Ser-756) allows interaction with 14-3-3 proteins (PubMed:11700305, PubMed:16301335).

Similarity: Belongs to the integrin beta chain family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	735367775
NCBI GeneID	3689
NCBI Accession #	NP_000202.3
NCBI GenBank Nucleotide #	NM_000211.4
UniProt Accession #	P05107; Q16418; Q53HS5; Q9UD72; B3KTS8; D3DSM1

Molecular Weight	Observed: 85 kDa Predicted: 85 kDa
NCBI Official Full Name	integrin beta-2 isoform 1
NCBI Official Synonym Full Names	integrin subunit beta 2
NCBI Official Symbol	ITGB2
NCBI Official Synonym Symbols	LAD; CD18; MF17; MFI7; LCAMB; LFA-1; MAC-1
NCBI Protein Information	integrin beta-2
UniProt Protein Name	Integrin beta-2
UniProt Gene Name	ITGB2
UniProt Synonym Gene Names	CD18; MFI7

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/itgb2-antibody-immunohistochemistry-western-blot-elisa/326651>