

Mouse anti-Human Integrin beta1 Monoclonal Antibody | anti-ITGB1 antibody

Integrin beta1 (Extracellular region) M004 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71648	Mouse	Human	ELISA, Immunoprecipitation, Immunocytochemistry, Western Blot

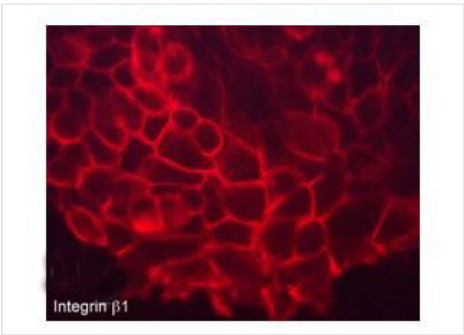
PRODUCT SYNONYMS

Integrin beta1; Monoclonal Antibody; Integrin beta1 (Extracellular region) M004 Antibody; Integrin beta1 (Extracellular region); Integrin b1 M004; anti-ITGB1 antibody

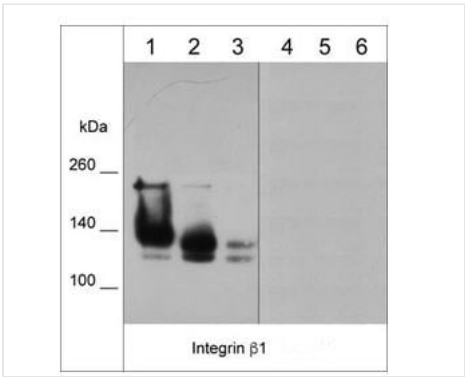
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	M004
Specificity	Clone M004 detects 120-150kDa* bands corresponding to Integrin beta1 on SDS-PAGE immunoblots of native human A431, A549, MDA-MB-231, and LNCaP cell lysates. The antibody also detects native recombinant human Integrin alpha1/beta1, alpha2/beta1, and alpha3/beta1 complexes, but does not detect recombinant human Integrin alpha6/beta4 or alphaV/beta3 complexes. The antibody does not detect the denatured form of Integrin beta1. Clone M004 can be used in western blot, immunocytochemical labeling, ELISA, and immunoprecipitation, as well for detecting live, unfixed cells.
Purity/Purification	Protein G chromatography
Form/Format	Mouse monoclonal antibody purified with protein G chromatography is supplied in 100ul phosphate-buffered saline, 50% glycerol, 1mg/ml BSA, and 0.05% sodium azide.
Applicable Applications for anti-ITGB1 antibody	ELISA, IP (Immunoprecipitation), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	Clone M004 was generated from a proprietary antigen related to the extracellular region of human integrin beta1 in complex with integrin alpha expressed in the A431 epidermoid carcinoma cell line.
Preparation and Storage	Store at -20 degree C. Stable for 1 year.

IMAGES



ICC (Immunocytochemistry)
Immunocytochemical labeling of Integrin beta1 in paraformaldehyde fixed human A431 cells. The cells were labeled with mouse monoclonal anti-Integrin beta1 (clone M004). The antibody was detected using goat anti-mouse DyLight 594.



WB (Western Blot)
Western blot analysis of native (lanes 1-3) and denatured (lanes 4-6) cell lysates from human A431 (lane 1 & 4), A549 (lane 2 & 5), and LNCaP (lane 3 & 6). The blots were probed with mouse monoclonal anti-Integrin beta1 (IM0041) at 1:1000 dilution.

ADDITIONAL INFORMATION

Related Product Information for anti-ITGB1 antibody	Integrins are cell adhesion molecules that can mediate bidirectional transfer of signals across the plasma membrane. The cytoplasmic domains of integrin family members interact with components of the signal transduction apparatus within cells. Integrin receptors contain noncovalently associated alpha and beta subunits that consist of a large extracellular region (the ligand-binding domain), a short transmembrane region, and a cytoplasmic domain of varying length. In mammals, at least 17 alpha subunits and 8 beta subunits have been identified and these proteins can heterodimerize to form at least 22 different receptors. The beta1 subfamily includes 12 distinct integrin proteins that bind to different extracellular matrix molecules. Integrin beta1 has been implicated in various activities including embryonic development, blood vessel, skin, bone, and muscle formation, as well as tumor metastasis and angiogenesis.
References	Iwamoto, D. & Calderwood, D. (2015) Cur Opin Cel Bio. 36:41. Wang, L. et al. (2012) J Cell Physiol. 227(2):474.

NCBI AND UNIPROT INFORMATION

NCBI GI #	19743813
NCBI GeneID	3688
NCBI Accession #	NP_002202.2
NCBI GenBank Nucleotide #	NM_002211.3
UniProt Accession #	P05556; P78466; P78467; Q13089; Q13090; Q13091; Q13212; A8K6N2; D3DRX9; D3DRY3; D3DRY4; D3DRY5
Molecular Weight	88,415 Da
NCBI Official Full Name	integrin beta-1 isoform 1A
NCBI Official Synonym Full Names	integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12)
NCBI Official Symbol	ITGB1
NCBI Official Synonym Symbols	CD29; FNRB; MDF2; VLAB; GPIIA; MSK12; VLA-BETA
NCBI Protein Information	integrin beta-1; glycoprotein IIa; integrin VLA-4 beta subunit; very late activation protein, beta polypeptide
UniProt Protein Name	Integrin beta-1
UniProt Gene Name	ITGB1
UniProt Synonym Gene Names	FNRB; MDF2; MSK12; GPIIA
UniProt Entry Name	ITB1_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/monoclonal/integrin-beta1-antibody-clone-m004-immunoprecipitation-immunocytochemistry-western-blot-elisa/71648>