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Anti-Integrin β1 (Extracellular region) Antibody

Catalog # AN1819

Product Information

Application	WB, ICC, IP
Primary Accession	P05556
Host	Mouse
Clonality	Mouse Monoclonal
Isotype	IgG1
Clone Names	M004
Calculated MW	88415

Additional Information

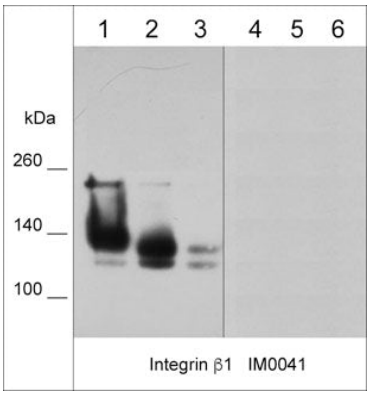
Gene ID	3688
Other Names	Integrin beta-1, Fibronectin receptor subunit beta, Glycoprotein IIa, GPIIA, VLA-4 subunit beta, CD29, TGB1, FNRB, MDF2, MSK12, ITGB1
Target/Specificity	Integrins are cell adhesion molecules that can mediate bidirectional transfer of signals across the plasma membrane. The cytoplasmic domains of integrin family members interact with components of the signal transduction apparatus within cells. Integrin receptors contain noncovalently associated α and β 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 α subunits and 8 β subunits have been identified and these proteins can heterodimerize to form at least 22 different receptors. The integrin β2 subunit associates with integrin αL to form a receptor for ICAM family members. Integrin β2/αL is involved in a variety of immune phenomena including leukocyte-endothelial cell interaction, cytotoxic T-cell mediated killing, and antibody dependent killing by granulocytes and monocytes.
Dilution	WB~~1:1000 ICC~~N/A IP~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Anti-Integrin β1 (Extracellular region) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.
Shipping	Blue Ice

Background

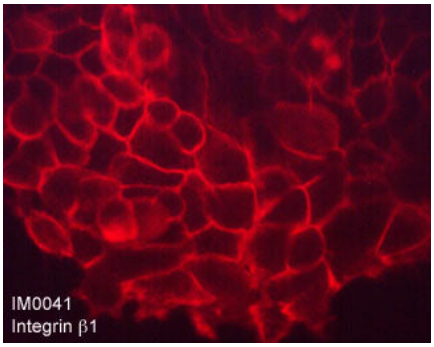
Integrins are cell adhesion molecules that can mediate bidirectional transfer of signals across the plasma membrane. The cytoplasmic domains of integrin family members interact with components of the signal transduction apparatus within cells. Integrin receptors contain noncovalently associated α and β 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 α subunits and 8 β subunits have been identified and these proteins can heterodimerize to form at least 22 different receptors. The integrin β2 subunit associates with integrin αL to form a receptor for ICAM family members. Integrin β2/αL is involved in a variety of immune phenomena including leukocyte-endothelial cell interaction, cytotoxic T-cell mediated killing, and antibody dependent killing by granulocytes and monocytes.

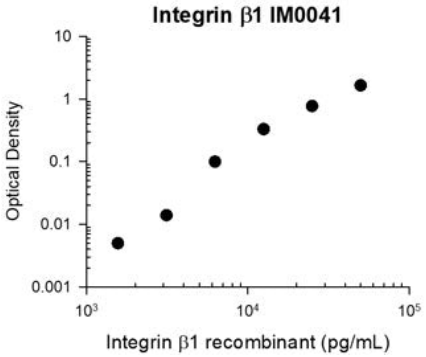
Images



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 β1 (AN1819) at 1:1000 dilution.



Immunocytochemical labeling of Integrin β1 in paraformaldehyde fixed human A431 cells. The cells were labeled with mouse monoclonal anti-Integrin β1 (clone M004). The antibody was detected using goat anti-mouse DyLight® 594.



Representative Standard Curve using mouse monoclonal anti-integrin β1 (AN1819) for ELISA capture of human recombinant integrin β1 extracellular region. Capture was detected by mouse monoclonal anti-integrin β1 (IM0411) followed by appropriate secondary antibody conjugated to HRP.