

产品名称: Integrin beta 1 (15X9) Rabbit Monoclonal Antibody
产品货号: AMRe12658



产品概述 (Summary)

产品名称 (Production Name)	Integrin beta 1 (15X9) Rabbit Monoclonal Antibody
描述 (Description)	Recombinant rabbit monoclonal antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC
种属反应性 (Reactivity)	Human

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Monoclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	ITGB1
别名 (Alternative Names)	Integrin β 1, CD29, FN1B, Fibronectin receptor beta subunit, ITB1, Integrin VLA-4 beta subunit, Integrin beta-1 precursor, integrin beta-1
基因 ID (Gene ID)	3688.0
蛋白 ID (SwissProt ID)	P05556.

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:200
蛋白分子量 (Molecular Weight)	88kDa

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研究背景 (Background)

Integrins are α/β heterodimeric cell surface receptors that play a pivotal role in cell adhesion and migration, as well as in growth and survival. The integrin family contains at least 18 α and 8 β subunits that form 24 known integrins with distinct tissue distribution and overlapping ligand specificities. Integrins α -1/ β -1, α -2/ β -1, α -10/ β -1 and α -11/ β -1 are receptors for collagen. Integrins α -1/ β -1 and α -2/ β -2 recognize the proline-hydroxylated sequence G-F-P-G- E-R in collagen. Integrins α -2/ β -1, α -3/ β -1, α - 4/ β -1, α -5/ β -1, α -8/ β -1, α -10/ β -1, α - 11/ β -1 and α -V/ β -1 are receptors for fibronectin. α - 4/ β -1 recognizes one or more domains within the alternatively spliced CS-1 and CS-5 regions of fibronectin. Integrin α -5/ β -1 is a receptor for fibrinogen. Integrin α -1/ β -1, α -2/ β -1, α -6/ β -1 and α -7/ β -1 are receptors for laminin. Integrin α -6/ β -1 (ITGA6:ITGB1) is present in oocytes and is involved in sperm-egg fusion (By similarity). Integrin α -4/ β -1 is a receptor for VCAM1. It recognizes the sequence Q-I-D-S in VCAM1. Integrin α -9/ β -1 is a receptor for VCAM1, cytotactin and osteopontin. It recognizes the sequence A-E-I-D-G-I-E-L in cytotactin. Integrin α - 3/ β -1 is a receptor for epiligrin, thrombospondin and CSPG4. α - 3/ β -1 may mediate with LGALS3 the stimulation by CSPG4 of endothelial cells migration. Integrin α -V/ β -1 is a receptor for vitronectin. β -1 integrins recognize the sequence R-G-D in a wide array of ligands. When associated with α -7 integrin, regulates cell adhesion and laminin matrix deposition. Involved in promoting endothelial cell motility and angiogenesis. Involved in osteoblast compaction through the fibronectin fibrillogenesis cell-mediated matrix assembly process and the formation of mineralized bone nodules. May be involved in up-regulation of the activity of kinases such as PKC via binding to KRT1. Together with KRT1 and RACK1, serves as a platform for SRC activation or inactivation. Plays a mechanistic adhesive role during telophase, required for the successful completion of cytokinesis. Integrin α -3/ β -1 provides a docking site for FAP (seprase) at invadopodia plasma membranes in a collagen-dependent manner and hence may participate in the adhesion, formation of invadopodia and matrix degradation processes, promoting cell invasion. ITGA4:ITGB1 binds to fractalkine (CX3CL1) and may act as its coreceptor in CX3CR1-dependent fractalkine signaling (PubMed:23125415, PubMed:24789099). ITGA4:ITGB1 and ITGA5:ITGB1 bind to PLA2G2A via a site (site 2) which is distinct from the classical ligand-binding site (site 1) and this induces integrin conformational changes and enhanced ligand binding to site 1 (PubMed:18635536, PubMed:25398877). ITGA5:ITGB1 acts as a receptor for fibrillin-1 (FBN1) and mediates R-G- D-dependent cell adhesion to FBN1 (PubMed:12807887, PubMed:17158881). ITGA5:ITGB1 is a receptor for IL1B and binding is essential for IL1B signaling (PubMed:29030430). ITGA5:ITGB3 is a receptor for soluble CD40LG and is required for CD40/CD40LG signaling

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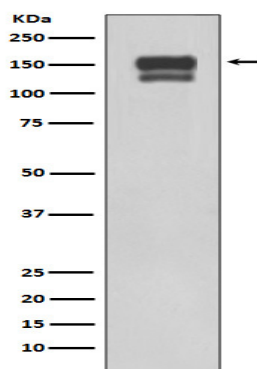


(PubMed:31331973).

研究领域 (Research Area)

Neuroscience

图片 (Image Data)



Western blot analysis of using Integrin beta1 expression in 293T cell lysate.

注意事项 (Note)

For research use only .