

Active Recombinant Human ITGA2&ITGB1 protein, His-tagged

Cat. No. ITGA2&ITGB1-1594H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ITGA2&ITGB1 protein(Tyr30-Thr1132(ITGA2)&Gln21-Asp728(ITGB1)), fused with His tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	30-1132;21-728 a.a.
Form	Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 150 mM NaCl, pH7.5.
Bio-activity	Immobilized Human Collagen I protein at 2 µg/mL (100 µL/well) can bind Human ITGA2&ITGB1 Heterodimer Protein, His Tag&Tag Free with a linear range of 0.078-1.25 µg/mL.
Molecular Mass	Human ITGA2&ITGB1 Heterodimer Protein, His Tag&Tag Free, produced by co-expression of ITGA2 and ITGB1, has a calculated MW of 127.6 kDa (ITGA2) and 83.7 kDa (ITGB1). Subunit ITGA2 is fused with an acidic tail at the C-terminus and followed by a polyhistidine tag and subunit ITGB1 contains no tag but a basic tail at the C-terminus. The reducing (R) protein migrates as 150-160 kDa (ITGA2) and 105-135 kDa (ITGB1) respectively due to glycosylation.
Proteinlength	Tyr30-Thr1132(ITGA2)&Gln21-Asp728(ITGB1)
Endotoxin	Less than 1.0 EU per µg by the LAL method.

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Purity	>95% as determined by SDS-PAGE.
Storage	For long term, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. This product is stable after at: -20°C to -70°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	ITGA2 integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor) [Homo sapiens]
Official Symbol	ITGA2
Synonyms	ITGA2; integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor); CD49B; integrin alpha-2; CD49b; integrin alpha 2; collagen receptor; VLA-2 subunit alpha; platelet antigen Br; platelet glycoprotein Ia; platelet glycoprotein GPIa; CD49 antigen-like family member B; platelet membrane glycoprotein Ia; very late activation protein 2 receptor, alpha-2 subunit; BR; GPIa; VLA-2; VLAA2; BDPLT9;
Gene ID	3673
mRNA Refseq	NM_002203
Protein Refseq	NP_002194
MIM	192974
UniProt ID	P17301

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