

Active Recombinant Human Itgb1 protein, His-tagged

Cat. No. Itgb1-1624H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Itgb1 protein(Phe24-Gly1012 Asn28-Ser710), fused with His tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	24-1012;28-710 a.a.
Form	Lyophilized from 0.22 µm filtered solution in 50 mM Tris,150 mM NaCl,0.2 M Arginine,pH7.5 with trehalose as protectant.
Bio-activity	Immobilized Human Integrin alpha 6 beta 4 Protein, His Tag&Tag Free at 5 µg/mL (100 µL/well) can bind Human Laminin 511 E8, Fc Tag with a linear range of 0.8-13 ng/mL.Immobilized Human Laminin 511 E8, Fc Tag at 5 µg/mL (100 µL/well) can bind Human Integrin alpha 6 beta 4 Protein, His Tag&Tag Free with a linear range of 0.01-0.156 µg/mL.
Molecular Mass	Human Integrin alpha 6 beta 4 Protein, His Tag&Tag Free, produced by co-expression of ITGA6 and ITGB4, has a calculated MW of 116.8 kDa (ITGA6) and 81.8 kDa (ITGB4). Subunit ITGA6 is fused with an acidic tail at the C-terminus and followed by a polyhistidine tag and subunit ITGB4 contains no tag but a basic tail at the C-terminus. The non-reducing (NR) protein migrates as 130-140 kDa (ITGA6) and 75-85 kDa (ITGB4) respectively due to glycosylation.

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Proteinlength	Phe24-Gly1012 Asn28-Ser710
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>95% as determined by SDS-PAGE. >90% as determined by SEC-MALS.
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	ITGB1 integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12) [Homo sapiens]
Official Symbol	Itgb1
Synonyms	ITGB1; integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12); FNRB, MDF2, MSK12; integrin beta-1; CD29; GPIIA; integrin VLA-4 beta subunit; very late activation protein, beta polypeptide; FNRB; MDF2; VLAB; MSK12; VLA-BETA;
Gene ID	3688
mRNA Refseq	NM_002211
Protein Refseq	NP_002202

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MIM	135630
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UniProt ID	P05556
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