

Active Recombinant Rat ITGA1&ITGB1 protein, His-tagged

Cat. No. ITGA1&ITGB1-0309R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat ITGA1&ITGB1 protein(Phe29-Pro1142(ITGA1)&Gln21-Asp729(ITGB1)), fused with His tag, was expressed in HEK293.
Species	Rat
Source	HEK293
ProteinLength	29-1142;21-729 a.a.
Form	Lyophilized from 0.22 µm filtered solution in 50 mM Tris,150 mM NaCl,pH7.5 with trehalose as protectant.
Bio-activity	Immobilized Human Collagen I protein at 2 µg/mL (100 µL/well) can bind Rat ITGA1&ITGB1 Heterodimer Protein, His Tag&Tag Free with a linear range of 0.02-0.313 µg/mL.Immobilized Human Collagen IV Protein at 2 µg/mL (100 µL/well) can bind Rat ITGA1&ITGB1 Heterodimer Protein, His Tag&Tag Free with a linear range of 0.002-0.156 µg/mL.
Molecular Mass	Rat ITGA1&ITGB1 Heterodimer Protein, His Tag&Tag Free, produced by co-expression of ITGA1 and ITGB1, has a calculated MW of 130.0 kDa (ITGA1) and 83.7 kDa (ITGB1). Subunit ITGA1 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.
Proteinlength	Phe29-Pro1142(ITGA1)&Gln21-Asp729(ITGB1)

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Endotoxin	Less than 1.0 EU per µg by the LAL method.
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	Itga1 integrin, alpha 1 [Rattus norvegicus]
Official Symbol	ITGA1
Synonyms	ITGA1; integrin, alpha 1; integrin alpha-1; VLA-1; laminin and collagen receptor; CD49 antigen-like family member A;
Gene ID	25118
mRNA Refseq	NM_030994
Protein Refseq	NP_112256

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