Active Recombinant Rat ITGA2&ITGB1 protein, His-tagged

Cat. No. ITGA2&ITGB1-1592R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat ITGA2&ITGB1 protein(Tyr27-Gly1130(ITGA2)&Gln21-Asp729(ITGB1)), fused with His tag, was expressed in HEK293.
Species	Rat
Source	HEK293
ProteinLength	27-1130;21-729 a.a.
Form	Lyophilized from 0.22 μm filtered solution in 50 mM Tris, 150 mM NaCl, pH8.0.
Bio-activity	Immobilized Native Human Collagen IV Protein at 2 μg/mL (100 μL/well) can bind Rat ITGA2&ITGB1 Heterodimer Protein, His Tag&Tag Free with a linear range of 0.039-0.625 μg/mL.
Molecular Mass	Rat 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 150-180 kDa (ITGA2) and 100-130 kDa (ITGB1) respectively due to glycosylation.
Proteinlength	Tyr27-Gly1130(ITGA2)&Gln21-Asp729(ITGB1)
Endotoxin	Less than 1.0 EU per μg by the LAL method.

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Purity	>90% 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 [Rattus norvegicus]
Official Symbol	ITGA2
Synonyms	ITGA2; integrin, alpha 2; integrin alpha-2; CD49B;
Gene ID	170921

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