

Human Integrin alpha 2 beta 1 (ITGA2&ITGB1) Heterodimer Protein

Cat. No. ITG-HM1AB

Description

Source	Recombinant Human Integrin alpha 2 beta 1(ITGA2&ITGB1) Heterodimer Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Tyr30-T1132(ITGA2) acidic tail & Gln21-Asp728(ITGB1) basic tail.
Accession	P17301-1(ITGA2)&P05556-1(ITGB1)
Molecular Weight	The protein has a predicted MW of 126.6 kDa(ITGA2)&83.2 kDa(ITGB1). Due to glycosylation, the protein migrates to 110-140 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

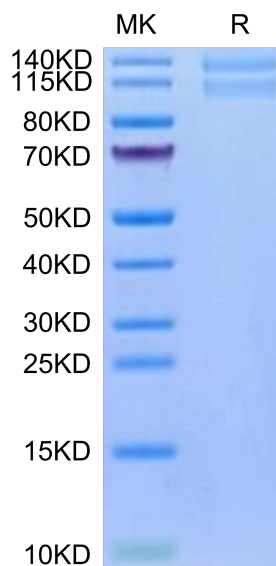
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

The $\alpha 2\beta 1$ integrin, also known as VLA-2, GPIa-IIa, CD49b, was first identified as an extracellular matrix receptor for collagens and/or laminins. It is now recognized that the $\alpha 2\beta 1$ integrin serves as a receptor for many matrix and nonmatrix molecules. It plays a critical role in platelet function and homeostasis.

Assay Data

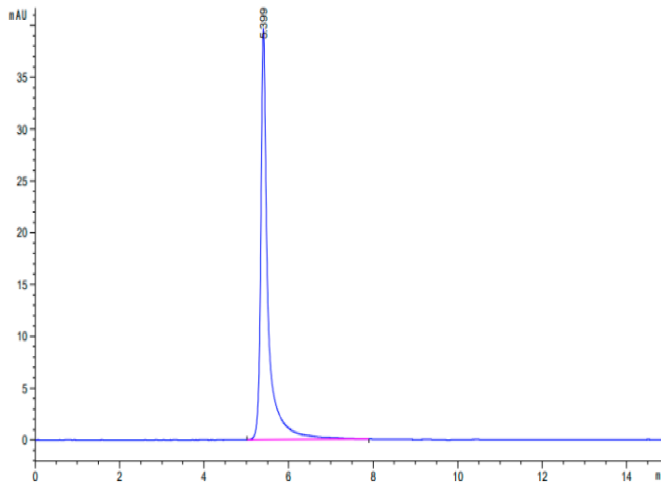
Bis-Tris PAGE



Human ITGA2&ITGB1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data



The purity of Human ITGA2&ITGB1 is greater than 95% as determined by SEC-HPLC.