

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



Cat. No. ITG-HM1AB

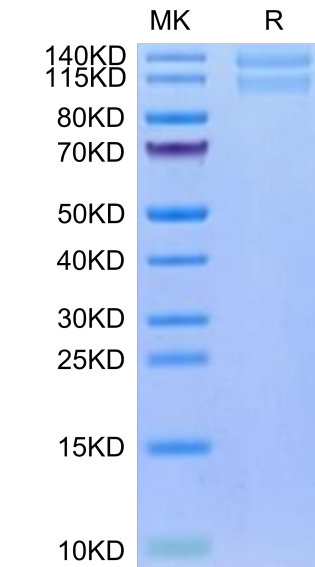
Description	
Source	Recombinant Human Integrin alpha 2 beta 1(ITGA2&ITGB1) Heterodimer Protein is expressed from HEK293 with His tag at the C-Terminus of ITGA2. It contains Tyr30-T1132(ITGA2) acidic tail and Gln21-Asp728(ITGB1) basic tail.
Accession	P17301-1(ITGA2)&P05556-1(ITGB1)
Molecular Weight	The 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 1 EU 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	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background	
The α2β1 integrin, also known as VLA-2, GPIIb-IIIa, CD49b, was first identified as an extracellular matrix receptor for collagens and/or laminins. It is now recognized that the α2β1 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%.

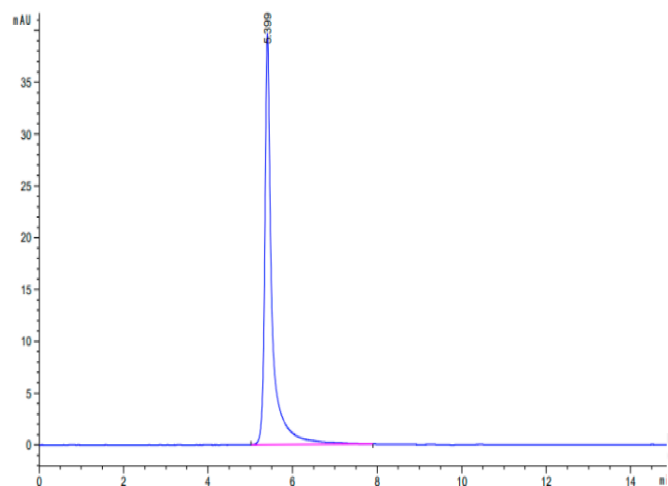
SEC-HPLC

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Assay Data



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