

Cat. No. ITG-HM1CP

Description	
Source	Recombinant Human&Mouse Chimeric Integrin alpha 2 beta 1 (ITGA2&ITGB1) Heterodimer Protein is expressed as a heterodimer of ITGA2 and ITGB1 by co-expression in HEK293. Subunit ITGA2 is fused with a His tag and an acidic tail at the C-terminus and subunit ITGB1 is fused with a basic tail at the C-terminus. It contains Tyr30-Thr1132 (E534K) (ITGA2) acidic tail & Gln21-Asp728 (ITGB1) basic tail.
Accession	P17301-1(E534K) (ITGA2) & P09055-1(ITGB1)
Molecular Weight	The protein has a predicted MW of 126.6 kDa (ITGA2) & 82.80 kDa (ITGB1). Due to glycosylation, the protein migrates to 110-130 kDa and 140-170 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 0.22 µm 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, GPIa-IIa, 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.	

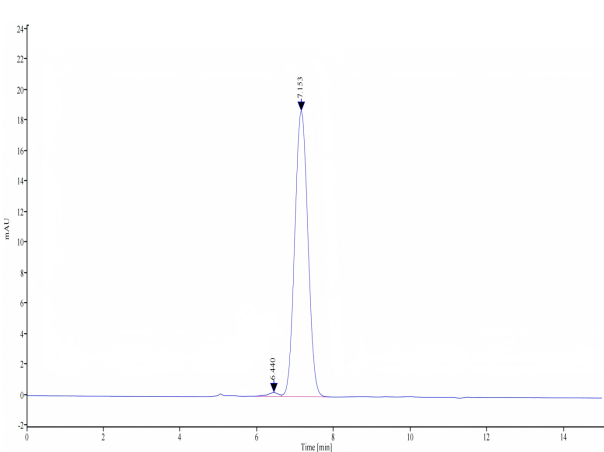
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



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

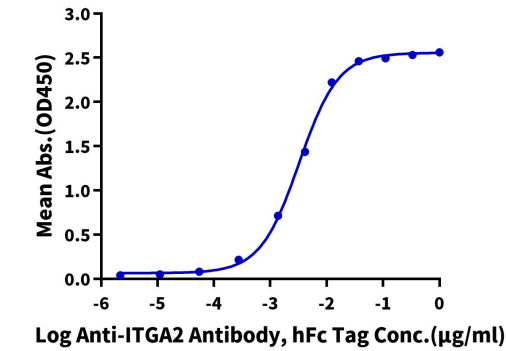
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Assay Data

ELISA Data

Human&Mouse Chimeric ITGA2&ITGB1, His Tag ELISA

0.2µg Human&Mouse Chimeric ITGA2&ITGB1, His Tag Per Well



Immobilized Human&Mouse Chimeric ITGA2&ITGB1, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Anti-ITGA2 Antibody, hFc Tag with the EC50 of 3.3ng/ml determined by ELISA.