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

Cat. No. ITG-HM4CPB

Description

Source	Recombinant Biotinylated 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, an Avi 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 128.45 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 0.1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 90% as determined by HPLC

Formulation and Storage

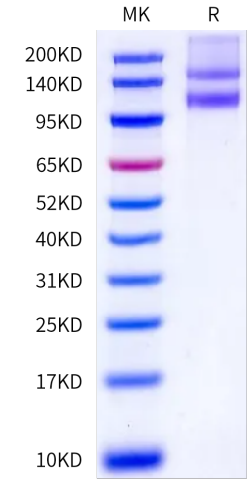
Formulation	Lyophilized from 0.22 μm filtered solution in PBS, 8% trehalose (pH 7.4).
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 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



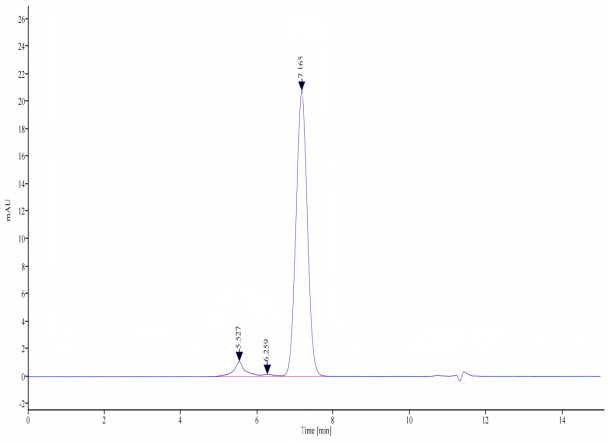
Biotinylated Human&Mouse Chimeric ITGA2&ITGB1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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Assay Data



The purity of Biotinylated Human&Mouse Chimeric ITGA2&ITGB1 is greater than 90% as determined by SEC-HPLC.

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

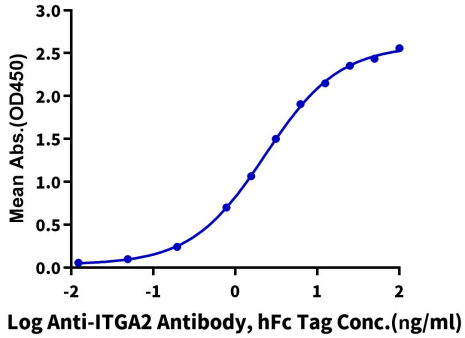
Cat. No. ITG-HM4CPB

Assay Data

ELISA Data

Biotinylated Human&Mouse Chimeric ITGA2&ITGB1, His-Avi Tag ELISA

0.1μg Biotinylated Human&Mouse Chimeric ITGA2&ITGB1, His-Avi Tag Per Well



Immobilized Biotinylated Human&Mouse Chimeric ITGA2&ITGB1, His-Avi Tag at 1μg/ml (100μl/Well) on streptavidin (5μg/ml) precoated plate. Dose response curve for Anti-ITGA2 Antibody, hFc Tag with the EC50 of 2.3ng/ml determined by ELISA.

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