

Biotinylated Human Integrin alpha 4 beta 7 (ITGA4&ITGB7) Heterodimer Protein



Cat. No. ITG-HM447B

Description

Source	Recombinant Biotinylated Human Integrin alpha 4 beta 7 (ITGA4&ITGB7) Heterodimer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus of ITGA4.
	It contains Tyr34-Thr977(ITGA4) acidic tail and Glu20-His723(ITGB7) basic tail.
Accession	P13612-1(ITGA4)&P26010-1(ITGB7)
Molecular Weight	The protein has a predicted MW of 112.5 kDa (ITGA4) and 81.3 kDa (ITGB7). Due to glycosylation, the protein migrates to 68-72 kDa, 78-83 kDa, 110-120 kDa and 130-150 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

Formulation and Storage

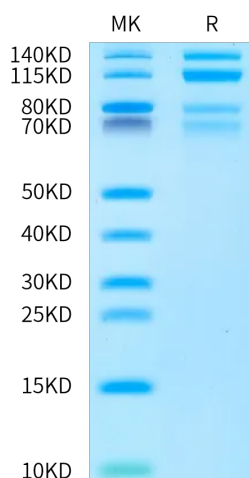
Formulation	Lyophilized from 0.22 µm filtered solution in PBS, 8% trehalose (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-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

Integrins alpha-4/beta-1 (VLA-4) and alpha-4/beta-7 are receptors for fibronectin. They recognize one or more domains within the alternatively spliced CS-1 and CS-5 regions of fibronectin. They are also receptors for VCAM1. Integrin alpha-4/beta-1 recognizes the sequence Q-I-D-S in VCAM1. Integrin alpha-4/beta-7 is also a receptor for MADCAM1. It recognizes the sequence L-D-T in MADCAM1.

Assay Data

Bis-Tris PAGE

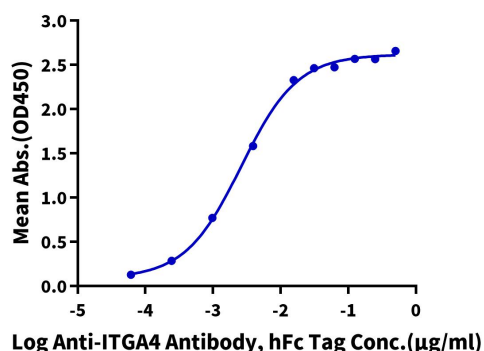


Biotinylated Human ITGA4&ITGB7 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

Biotinylated Human ITGA4&ITGB7, His Avi Tag ELISA

0.2µg Biotinylated Human ITGA4&ITGB7, His Avi Tag Per Well



Immobilized Biotinylated Human ITGA4&ITGB7, His-Avi Tag at 2µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-ITGA4 Antibody, hFc Tag with the EC50 of 2.6ng/ml determined by ELISA.

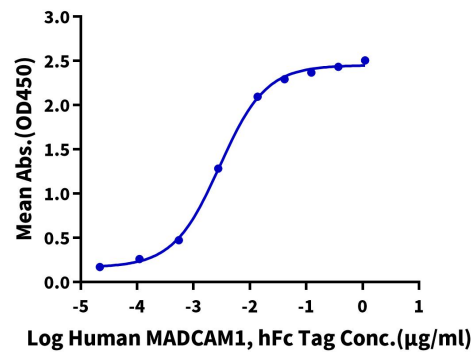
Cat. No. ITG-HM447B

Assay Data

ELISA Data

Biotinylated Human ITGA4&ITGB7, His Avi Tag ELISA

0.5µg Biotinylated Human ITGA4&ITGB7, His Avi Tag Per Well



Immobilized Biotinylated Human ITGA4&ITGB7, His Avi Tag at 5µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Human MADCAM1, hFc Tag (Cat. MCM-HM201) with the EC50 of 2.9ng/ml determined by ELISA.