

Biotinylated Mouse Integrin alpha L beta 2 (ITGAL&ITGB2) Heterodimer Protein



Cat. No. ITG-MM4L1B

Description	
Source	Recombinant Biotinylated Mouse Integrin alpha L beta 2 (ITGAL&ITGB2) Heterodimer Protein is expressed as a heterodimer of ITGAL and ITGB2 by co-expression in HEK293. Subunit ITGAL is fused with a His tag, an Avi tag and an acidic tail at the C-terminus, subunit ITGB2 is fused with a basic tail at the C-terminus without tag. It contains Tyr24-His1088 (ITGAL) acidic tail and Gln24-Asn702 (ITGB2) basic tail.
Accession	P24063-1(ITGAL)&P11835(ITGB2)
Molecular Weight	The protein has a predicted MW of 125.22 kDa (ITGAL) and 79.60 kDa (ITGB2). Due to glycosylation, the protein migrates to 170-200 kDa (ITGAL) and 95-115 kDa (ITGB2) 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 > 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	
Integrin αLβ2 is one member of the integrin family and also called leukocyte function-associated antigen-1 (LFA-1). It is widely expressed on T lymphocytes and controls the function and, in particular, the migration of immune cells[1]. Active αLβ2 can bind ICAM1/CD54, ICAM2, ICAM3 and JAM1[2].	

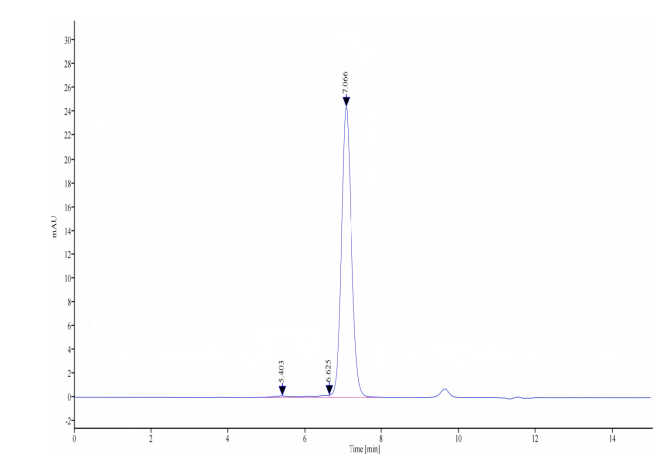
Assay Data

Bis-Tris PAGE



Biotinylated Mouse ITGAL&ITGB2 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Biotinylated Mouse ITGAL&ITGB2 is greater than 95% as determined by SEC-HPLC.