

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

Cat. No. ITG-CM147

Description

Source	Recombinant Cynomolgus Integrin alpha 4 beta 7 (ITGA4&ITGB7) Heterodimer Protein is expressed from HEK293 with His tag at the C-terminus.
	It contains Tyr34-Thr977 (ITGA4) acidic tail and Glu20-His723 (ITGB7) basic tail.
Accession	XP_005573683.3(ITGA4)&XP_005571028.3(ITGB7)
Molecular Weight	The protein has a predicted MW of 110.87 kDa (ITGA4) and 81.09 kDa (ITGB7). Due to glycosylation, the protein migrates to 73-80 kDa, 110-120 kDa and 130-150 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

Formulation and Storage

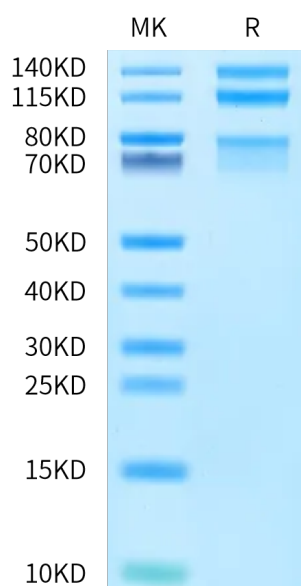
Formulation	Supplied as 0.22 µm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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

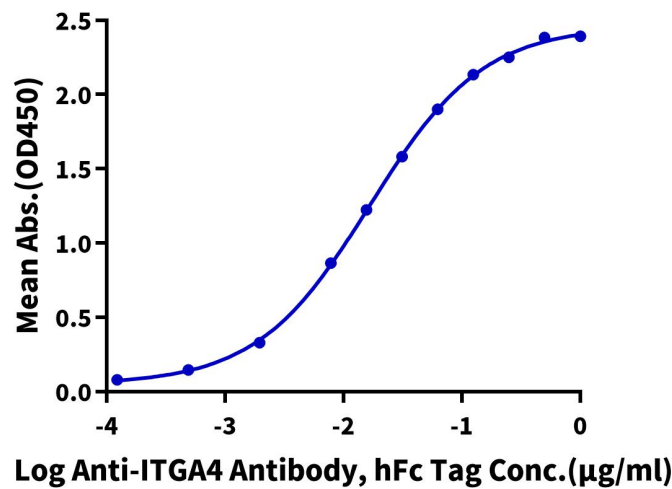


Cynomolgus ITGA4&ITGB7 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

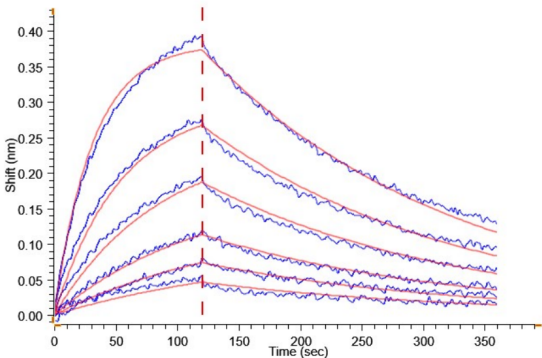
Cynomolgus ITGA4&ITGB7, His Tag ELISA

0.2μg Cynomolgus ITGA4&ITGB7, His Tag Per Well



Immobilized Cynomolgus ITGA4&ITGB7, His Tag at 2μg/ml (100μl/well) on the plate. Dose response curve for Anti-ITGA4 Antibody, hFc Tag with the EC50 of 16.7ng/ml determined by ELISA.

BLI Data



Loaded Anti-ITGA4 Antibody, hFc Tag on ProA-Biosensor can bind Cynomolgus ITGA4&ITGB7, His Tag with an affinity constant of 17.80 nM as determined in BLI assay (Gator® Prime).