

# Cynomolgus Integrin alpha 2 beta 1 (ITGA2&ITGB1) Heterodimer Protein

Cat. No. ITG-CM1AB

## Description

<b>Source</b>	Recombinant Cynomolgus Integrin alpha 2 beta 1 (ITGA2&ITGB1) Heterodimer Protein is expressed from HEK293 with His tag at the C-terminus of ITGA2.
	It contains Tyr30-Pro1130 (ITGA2) acidic tail and Gln161-Asp868 (ITGB1) basic tail.
<b>Accession</b>	G8F2Z5(ITGA2)&A0A7N9D0D7(ITGB1)
<b>Molecular Weight</b>	The protein has a predicted MW of 126.69 kDa (ITGA2) and 83.16 kDa (ITGB1). Due to glycosylation, the protein migrates to 130-170 kDa (ITGA2) and 100-130 kDa (ITGB1) based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

## Formulation and Storage

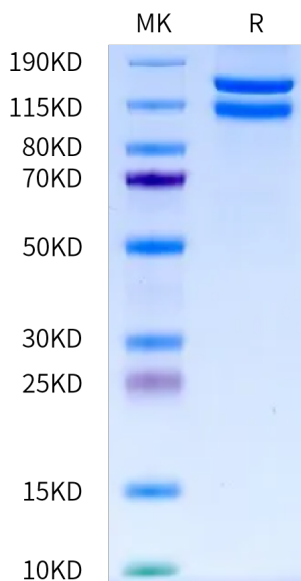
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage</b>	-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  $\alpha 2\beta 1$  integrin, also known as VLA-2, GPIIb-IIIa, CD49b, was first identified as an extracellular matrix receptor for collagens and/or laminins. It is now recognized that the  $\alpha 2\beta 1$  integrin serves as a receptor for many matrix and nonmatrix molecules. It plays a critical role in platelet function and homeostasis.

## Assay Data

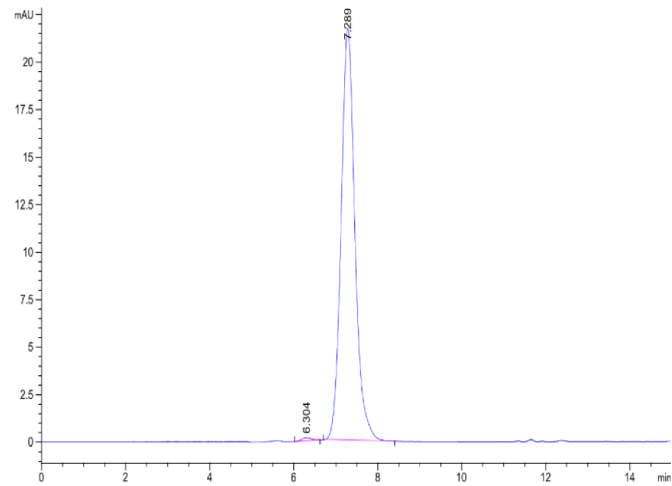
### Bis-Tris PAGE



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

### SEC-HPLC

Assay Data



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