

# Human Integrin alpha 6 beta 1 (ITGA6&ITGB1) Heterodimer Protein

Cat. No. ITG-HM461

## Description

<b>Source</b>	Recombinant Human Integrin alpha 6 beta 1 (ITGA6&ITGB1) Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Phe24-Gly1012 (ITGA6) acidic tail and Gln21-Asp728 (ITGB1) basic tail.
<b>Accession</b>	P23229-2 (ITGA6) & P05556-1 (ITGB1)
<b>Molecular Weight</b>	The protein has a predicted MW of 117.9 kDa (ITGA6) and 83.2 kDa (ITGB1). Due to glycosylation, the protein migrates to 140-160 kDa (ITGA6) and 110-150 kDa (ITGB1) under Non reducing (N) condition 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

## Formulation and Storage

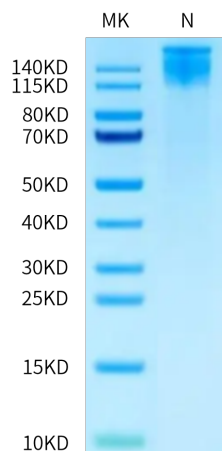
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<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

Integrin alpha-6/beta-1 (ITGA6:ITGB1) is a receptor for laminin on platelets. Integrin alpha-6/beta-1 (ITGA6:ITGB1) is present in oocytes and is involved in sperm-egg fusion. Integrin alpha-6/beta-4 (ITGA6:ITGB4) is a receptor for laminin in epithelial cells and it plays a critical structural role in the hemidesmosome (By similarity). ITGA6:ITGB4 binds to NRG1 (via EGF domain) and this binding is essential for NRG1-ERBB signaling

## Assay Data

### Bis-Tris PAGE



Human ITGA6&ITGB1 on Bis-Tris PAGE under Non reducing (N) condition. The purity is greater than 95%.