

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

Cat. No. ITG-MM1AB

## Description

<b>Source</b>	Recombinant Mouse Integrin alpha 2 beta 1(ITGA2&ITGB1) Heterodimer Protein is expressed from HEK293 with His tag at the C-Terminus of ITGA2. It contains Tyr27-Thr1129(ITGA2) acidic tail and Gln21-Asp728(ITGB1) basic tail.
<b>Accession</b>	Q62469(ITGA2)&P09055-1(ITGB1)
<b>Molecular Weight</b>	The protein has a predicted MW of 126.60 kDa(ITGA2)&82.80 kDa(ITGB1). Due to glycosylation, the protein migrates to 128-138 kDa(ITGA2)&105-115 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

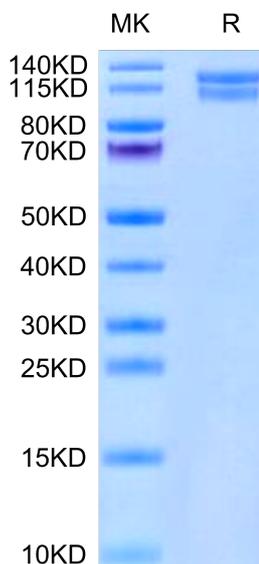
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage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

Integrin alpha 2 beta 1 is a positive regulator of collagenase (MMP-1) and collagen alpha 1(I) gene expression. HOS cells normally lacking alpha 2 beta 1 integrin were forced to express it, and this prevented the down-regulation in the levels of alpha 1 (I) collagen mRNA when cells were grown inside collagen gels. The data indicate that the level of MMP-1 expression is regulated by the collagen receptor alpha 2 beta 1 integrin.

## Assay Data

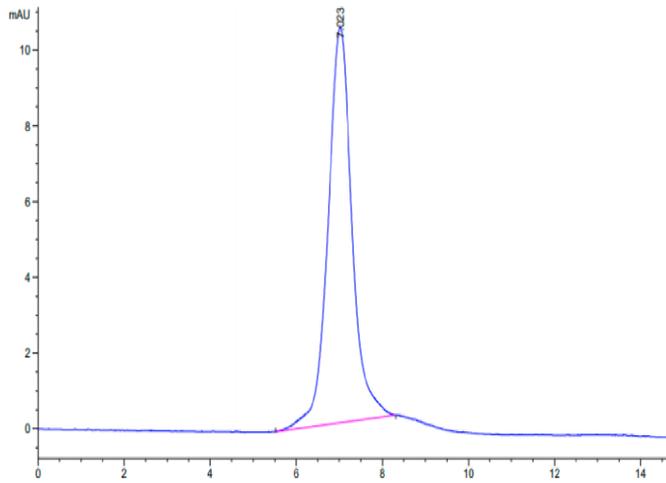
### Bis-Tris PAGE



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

### SEC-HPLC

Assay Data



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