

## General Information

### Gene Name Synonym

CD49 antigen-like family member F; VLA-6; CD antigen CD49f [Cleaved into: Integrin alpha-6 heavy chain; Integrin alpha-6 light chain; Processed integrin alpha-6; Alpha6p]

### Protein Construction

A DNA sequence encoding the extracellular domain (Met 1-Ser 1011) of human ITGA6 isoform alpha-6X1B (P23229-3) was fused with a flag tag at the C-terminus, constructed the plasmid 1 ; A DNA sequence encoding the extracellular domain (Met 1-Asp 728) of human ITGB1 (P05556-1) was fused with a polyhistidine tag at the C-terminus, constructed the plasmid 2. The two plasmids were co-expressed and the heterodimer was purified

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Purity

> 92 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per  $\mu\text{g}$  of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at  $-70^{\circ}\text{C}$

### Predicted N terminal

Phe 24 & Gln 21

## Molecular Mass

The recombinant heterodimer of human ITGA6/ITGB1 comprises 1779 (1030 + 749) amino acids and has a calculated molecular mass of 198 (115 + 83) kDa. As a result of glycosylation, the apparent molecular mass of rh ITGA6/ITGB1 heterodimer is approximately 110 & 130 kDa in SDS-PAGE under reducing conditions

## Formulation

Lyophilized from sterile PBS, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

## Usage Guide

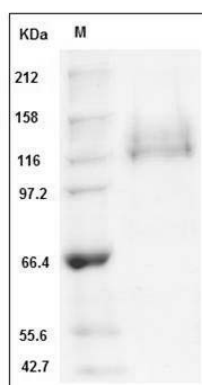
### Storage

Store it under sterile conditions at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$ . It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

## SDS-PAGE



Human ITGA6 & ITGB1 Heterodimer Protein SDS-PAGE