

## Recombinant Human ITGA6 & ITGB1 protein(Met1-Ser1011 & Met1-Asp728), Flag&His-tagged

**Cat. No.** ITGA6 & ITGB1-1177H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human ITGA6 isoform alpha-6X1B (P23229-3)(Met 1-Ser 1011) was fused with a flag tag at the C-terminus, constructed the plasmid 1 ; Recombinant Human ITGB1 (P05556-1)(Met 1-Asp 728) 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 in HEK293. |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                           |
| <b>ProteinLength</b>    | Met1-Ser1011 & Met1-Asp728                                                                                                                                                                                                                                                                                                                                       |
| <b>Form</b>             | Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.                                                                                                                                                                                                                   |
| <b>Molecular Mass</b>   | 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                                                 |
| <b>Endotoxin</b>        | < 1.0 EU per µg of the protein as determined by the LAL method                                                                                                                                                                                                                                                                                                   |
| <b>Purity</b>           | > 92 % as determined by SDS-PAGE                                                                                                                                                                                                                                                                                                                                 |

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**Storage** Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

**Reconstitution** It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

## GENE INFORMATION

**Gene Name** ITGA6 integrin, alpha 6 [ Homo sapiens ]

**Official Symbol** ITGA6

**Synonyms** ITGA6; integrin, alpha 6; integrin alpha-6; CD49f; integrin alpha6B; CD49 antigen-like family member F; VLA-6; ITGA6B; FLJ18737; DKFZp686J01244;

**Gene ID** 3655

**mRNA Refseq** NM\_000210

**Protein Refseq** NP\_000201

**MIM** 147556

**UniProt ID** P23229

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