

## PRODUCT INFORMATION

<b>Target</b>	ITGB1 and ITGA3
<b>Synonyms</b>	Integrin alpha 3 beta 1, ITGB1 and ITGA3
<b>Description</b>	Recombinant human ITGB1 protein with C-terminal human Fc tag and human ITGA3 protein with C-terminal 10×His tag
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	P05556 and P26006
<b>Expression Host</b>	HEK293
<b>Tag</b>	C-Human Fc tag and C-10×His tag
<b>Molecular Characterization</b>	ITGB1(Gln21-Asp728) hFc(Glu99-Ala330) ITGA3(Phe33-Glu991) 10×His tag
<b>Molecular Weight</b>	The protein has a predicted molecular mass of 104.5 and 108.0 kDa after removal of the signal peptide.
<b>Purity</b>	The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.
<b>Formulation &amp; Reconstitution</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5% - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
<b>Storage &amp; Shipping</b>	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
<b>Sterility</b>	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.
<b>Background</b>	Integrin alpha-3/beta-1 (α3β1) is a transmembrane receptor that binds laminin, fibronectin, collagen, epiligrin, thrombospondin, and CSPG4. It mediates cell adhesion, migration, and signaling by serving as a docking site for FAP (seprase) at invadopodia in a collagen-dependent manner, facilitating ECM degradation and promoting invasion. α3β1 also cooperates with LGALS3 to mediate CSPG4-induced endothelial cell migration and participates in tissue morphogenesis and basement membrane organization.
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated



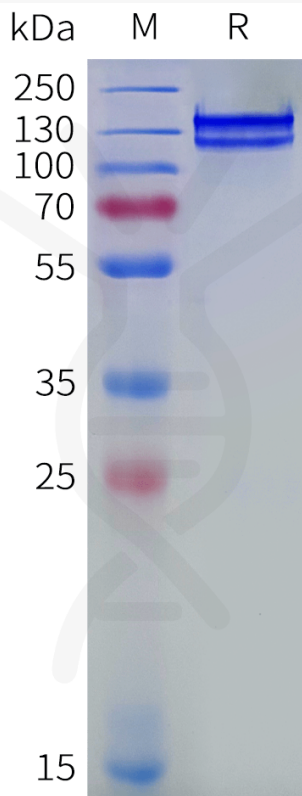


Figure 1. Human ITGB1 and ITGA3 Heterodimer Protein, hFc Tag and His Tag on SDS-PAGE under reducing condition.

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