

PRODUCT INFORMATION

Target	ITGA2;ITGB1
Synonyms	Integrin alpha 2 beta 1;ITGA2 and ITGB1
Description	Recombinant human ITGA2 protein with C-terminal 6×His tag and human ITGB1 protein with C-terminal human Fc tag
Delivery	In Stock
Uniprot ID	P17301; P05556
Expression Host	HEK293
Tag	C-6×His Tag and C-Human Fc Tag
Molecular Characterization	ITGA2(Tyr30-Thr1132) 6×His tag and ITGB1(Gln21-Asp728) hFc(Glu99-Ala330)
Molecular Weight	The heterodimer protein has a predicted molecular mass of 121.8 kDa and 104.5 kDa separately after removal of the signal peptide.
Purity	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	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.
Storage&Shipping	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.
Sterility	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.
Background	Integrin alpha 2 beta 1 is one of twelve integrin family adhesion receptors that share the beta 1 subunit. It is a receptor for laminin, collagen, collagen C-propeptides, fibronectin and E-cadherin. It recognizes the proline-hydroxylated sequence G-F-P-G-E-R in collagen. It is responsible for adhesion of platelets and other cells to collagens, modulation of collagen and collagenase gene expression, force generation and organization of newly synthesized extracellular matrix. Integrin ITGA2:ITGB1 acts as a receptor for Human rotavirus A and Human echoviruses 1 and 8. DGEA inhibited rotavirus binding to alpha2beta1 and infectivity. In a novel process, integrin-using viruses bind the alpha2 I domain of alpha2beta1 via DGE in VP4 and interact with alphaXbeta2 (via GPR) and alphaVbeta3 by using VP7 to facilitate cell entry and infection.
Usage	Research use only
Conjugate	Unconjugated



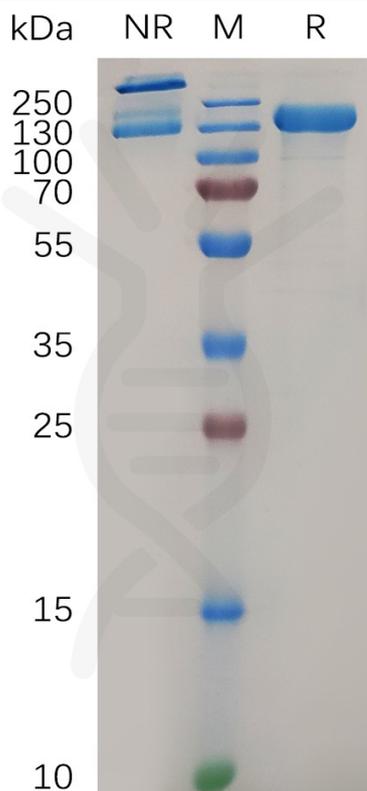


Figure 1. Human ITGA2&ITGB1 Heterodimer Protein, His Tag & hFc Tag on SDS-PAGE under reducing condition.

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