Human ITGA2 and ITGB1 Heterodimer Protein, His Tag and hFc Tag

Cat. No. PME100717

DIMA BIOTECH

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.
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

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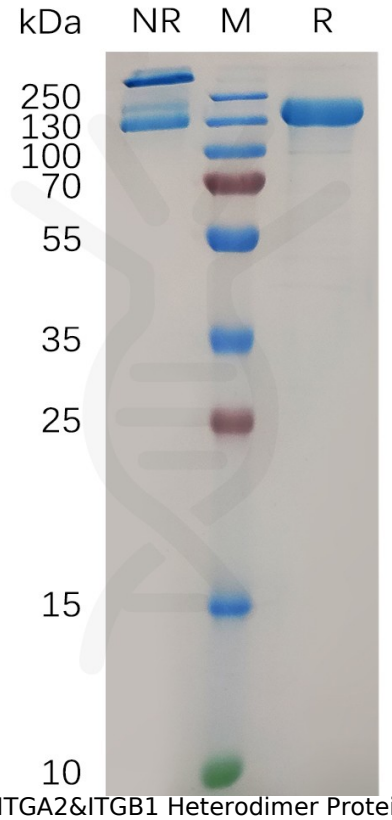


Figure 1. Human ITGA2&ITGB1 Heterodimer Protein, His Tag & hFc Tag on SDS-PAGE under reducing condition.

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