

PRODUCT INFORMATION

Target	ITGAV and ITGB1
Synonyms	Integrin alpha V beta 1;ITGAVandITGB1
Description	Recombinant heterodimer protein containing both human ITGAV Protein with C-terminal 6×His tag and human ITGB1 protein with C-terminal human Fc tag
Delivery	In Stock
Uniprot ID	P06756; P05556
Expression Host	HEK293
Tag	C-6×His Tag and C-Human Fc Tag
Molecular Characterization	ITGAV(Phe31-Val992) 6×His tag - ITGB1(Gln21-Asp728) hFc(Glu99-Ala330)
Molecular Weight	The protein has a predicted molecular mass of 107.1 and 104.5 kDa after removal of the signal peptide. The apparent molecular mass of ITGAV-His and ITGB1-hFc is approximately 130-250 kDa due to glycosylation.
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-5/beta-1 is a receptor for fibrinogen. Integrin alpha-1/beta-1, alpha-2/beta-1, alpha-6/beta-1 and alpha-7/beta-1 are receptors for laminin. Integrin alpha-4/beta-1 is a receptor for VCAM1. It recognizes the sequence Q-I-D-S in VCAM1. Integrin alpha-9/beta-1 is a receptor for VCAM1, cytotactin and osteopontin. It recognizes the sequence A-E-I-D-G-I-E-L in cytotactin. Integrin alpha-V/beta-1 is also a receptor for vitronectin. Beta-1 integrins recognize the sequence R-G-D in a wide array of ligands. Isoform 2 interferes with isoform 1 resulting in a dominant negative effect on cell adhesion and migration (in vitro). When associated with alpha-7/beta-1 integrin, regulates cell adhesion and laminin matrix deposition.
Usage	Research use only
Conjugate	Unconjugated



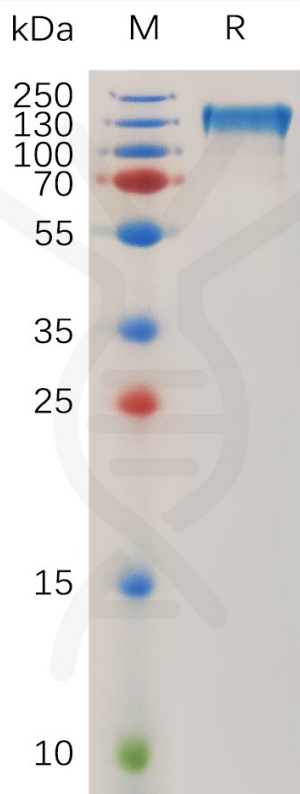


Figure 1. Human ITGAV & ITGB1 Heterodimer Protein, His Tag & hFc Tag on SDS-PAGE under reducing condition.

