Human ITGAV and ITGB5 Heterodimer Protein, His Tag and hFc Tag

Cat. No. PME101467

DIMA BIOTECH

PRODUCT INFORMATION

Target	ITGAV and ITGB5
Synonyms	CD51; MSK8; VNRA; VTNR and ITB5; Integrin beta-5
Description	Recombinant human ITGAV protein with C-terminal 6×His tag and human ITGB5 protein with C-terminal human Fc tag
Delivery	In Stock
Uniprot ID	P06756 and P18084
Expression Host	HEK293
Tag	C-6×His tag and C-Human Fc tag
Molecular Characterization	ITGAV(Phe31-Val992) 6×His tag and ITGB5(Gly24-Asn719) hFc(Glu99-Ala330)
Molecular Weight	The protein has a predicted molecular mass of 107.1 and 102.7 kDa after removal of the signal peptide.
Purity	The purity of the protein is greater than 85% 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 V beta 5 (ITGAV & ITGB5) is expressed on a wide variety of cell types including keratinocytes, fibroblasts, adhesive monocytes, embryonic stem cells, and select endothelium and epithelium. ITGAV & ITGB5 binds ligands containing an RGD motif, notably vitronectin. Growth factors that increase PKC activity, such as VEGF or TGF alpha, promote ITGAV & ITGB5-mediated angiogenesis while alpha V beta 3, which may be expressed in the same cell, responds to FGF-basic and TNF alpha. An inhibitor of both down regulates tumor angiogenesis. During lung inflammation, up regulation of ITGAV & ITGB5 on myofibroblasts or infiltrating lymphocytes may contribute to fibrosis by freeing TGF beta from latency.
Usage	Research use only
Conjugate	Unconjugated

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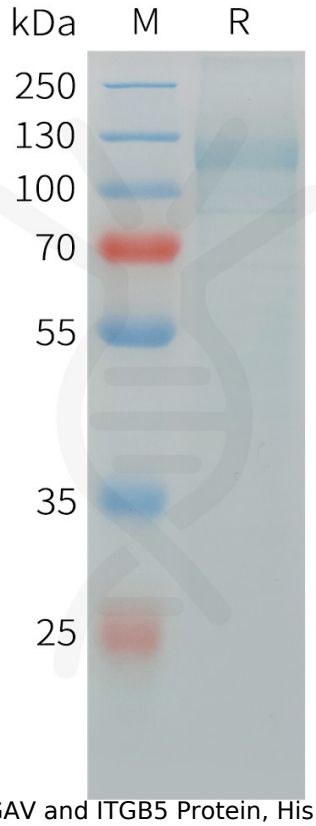


Figure 1. Human ITGAV and ITGB5 Protein, His Tag and hFc Tag on SDS-PAGE under reducing condition.

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