

Recombinant Mouse ITGB6 Protein

Cat. No. Itgb6-460M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant extracellular domain (Met 1-Val988) of mouse ITGAV (NP_032428.2) was fused with a flag tag at the C-terminus, constructed the plasmid 1; A DNA sequence encoding the extracellular domain (Met1-Pro708) of mouse ITGB6 (NP_067334.1) was fused with a polyhistidine tag at the C-terminus, constructed the plasmid 2. The two plasmids were co-expressed and the mouse ITGAV&ITGB6 heterodimer was purified.
Species	Mouse
Source	HEK293
ProteinLength	Met 1-Val988
Description	Integrin alpha-5, also known as ITGA5, is a single-pass type I membrane protein which belongs to the integrin alpha chain family. ITGA5 contains 7 FG-GAP repeats. Alpha chain 5 undergoes post-translational cleavage in the extracellular domain to yield disulfide-linked light and heavy chains that join with beta 1 to form a fibronectin receptor. ITGAV&ITGB6 is a receptor for fibronectin and cytotactin. It recognizes the sequence R-G-D in its ligands. Internalisation of ITGAV&ITGB6 via clathrin-mediated endocytosis promotes carcinoma cell invasion.
Predicted N Terminal	Phe 31 & Gly 22
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 %- 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	The recombinant heterodimer of mouse ITGAV&ITGB6 comprises 1728 (1000+728) amino acids and has a calculated molecular mass of 190.4 (110.7+79.7) KDa.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Purity	> (32.4+62.5) % as determined by SDS-PAGE
Storage	Samples are stable for up to twelve months from date of receipt at -70 centigrade. Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Itgb6 integrin beta 6 [Mus musculus]
Official Symbol	Itgb6
Synonyms	ITGB6; integrin beta 6; integrin beta-6; 2210409C20Rik; 4831415H04Rik;
Gene ID	16420
mRNA Refseq	NM_001159564
Protein Refseq	NP_001153036

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