Recombinant Full Length Human ITGB7 Protein, C-Flag-tagged

Cat. No. ITGB7-1417HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ITGB7 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a protein that is a member of the integrin superfamily. Members of this family are adhesion receptors that function in signaling from the extracellular matrix to the cell. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. The encoded protein forms dimers with an alpha4 chain or an alphaE chain and plays a role in leukocyte adhesion. Dimerization with alpha4 forms a homing receptor for migration of lymphocytes to the intestinal mucosa and Peyer's patches. Dimerization with alphaE permits binding to the ligand epithelial cadherin, a calcium-dependent adhesion molecule. Alternate splicing results in multiple transcript variants. Additional alternatively spliced transcript variants of this gene have been described, but their full-length nature is not known.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	86.7 kDa
AA Sequence	MVALPMVLVLLLVLSRGESELDAKIPSTGDATEWRNPHLSMLGSCQPAPSCQKCILS HPSCAWCKQLNFT ASGEAEARRCARREELLARGCPLEELEEPRGQQEVLQDQPLS QGARGEGATQLAPQRVRVTLRPGEPQQL QVRFLRAEGYPVDLYYLMDLSYSMKD

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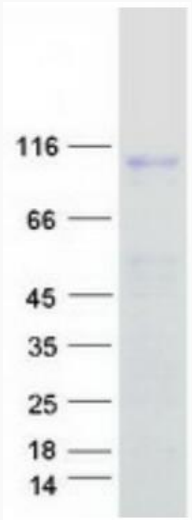
	DLERVRQLGHALLVRLQEVTHSVRIGFGSFVDKTVLPFVSTVPS KLRHPCPTRLERC QSPFSFHHVLSLTGDAQAFEREVGRQSVSGNLDSPEGGFDAILQAALCQEQIGWRN V SRLLVFTSDDTFHTAGDGKLGGIFMPSDGHCHLDSNGLYSRSTEFDYPSVGQVA QALSAANIQPIFAVTS AALPVYQELSKLIPKSAVGELSEDSSNVVQLIMDAYNSLSST VTLEHSSLPPGVHISYESQCEGPEKREG KAEDRGQCNHVRINQTVTFWVSLQATH CLPEPHLLRLRALGFSEELIVELHTLCDCNCSDTQPQAPHCSD GQGHLQCGVCSCA PGRLGRLCECSVAELSSPDLESGCRAPNGTGPLCSGKGHCQCGRCSCSGQSSGH LCE CDDASCERHEGILCGGFGRCQCGVCHCHANRTGRACECSGDMDSCISPEGG LCSGHGRCKCNRCQCLDGY YGALCDQCPGCKTPCERHRDCAECGAFRTGPLATN CSTACAHTNVTLALAPILDDGWCKERTLDNQLFFF LVEDDARGTVVLRVRPQEKGA DHTQAIVLGCVGGIVAVGLGLVLAYRLSVEIYDRREYSRFEKEQQQLNW KQDSNPLYKSAITTTINPRFQEADSPTLSGPTRTRPLEQKLISEEDLAANDILDYKDDD DKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Transmembrane
Protein Pathways	Arrhythmogenic right ventricular cardiomyopathy (ARVC), Cell adhesion molecules (CAMs), Dilated cardiomyopathy, ECM-receptor interaction, Focal adhesion,

	Hypertrophic cardiomyopathy (HCM), Regulation of actin cytoskeleton
Full Length	Full L.

GENE INFORMATION

Gene Name	ITGB7 integrin subunit beta 7 [Homo sapiens (human)]
Official Symbol	ITGB7
Synonyms	integrin, beta 7; integrin beta 7 subunit
Gene ID	3695
mRNA Refseq	NM_000889.3
Protein Refseq	NP_000880.1
MIM	147559
UniProt ID	P26010

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Coomassie blue staining of purified ITGB7 protein.

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