

Recombinant Human ITGA7

Cat. No. ITGA7-28842TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 478-577 of Human ITGA7 with N terminal proprietary tag; predicted MWt 36.63 kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	The protein encoded by this gene belongs to the integrin alpha chain family. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. They mediate a wide spectrum of cell-cell and cell-matrix interactions, and thus play a role in cell migration, morphologic development, differentiation, and metastasis. This protein functions as a receptor for the basement membrane protein laminin-1. It is mainly expressed in skeletal and cardiac muscles and may be involved in differentiation and migration processes during myogenesis. Defects in this gene are associated with congenital myopathy. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.
Molecular Weight	36.630kDa inclusive of tags
Tissue specificity	Isoforms containing segment A are predominantly expressed in skeletal muscle. Isoforms containing segment B are abundantly expressed in skeletal muscle, moderately in cardiac muscle, small intestine, colon, ovary and prostate and weakly in lung and testes

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Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	SHEVSIAPRSIDLEQPNCAGGHSVCVDLRVCFSYIAVPSSYSPTVALDYVLDADTDR RLRGQVPRVTFLSRNLEEPKHQASGTVWLKHQHDRVCGDAMFQ
Sequence Similarities	Belongs to the integrin alpha chain family.Contains 7 FG-GAP repeats.

GENE INFORMATION

Gene Name	ITGA7 integrin, alpha 7 [Homo sapiens]
Official Symbol	ITGA7
Synonyms	ITGA7; integrin, alpha 7; integrin alpha-7;
Gene ID	3679
mRNA Refseq	NM_001144996
Protein Refseq	NP_001138468
MIM	600536
Uniprot ID	Q13683

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Chromosome Location	12q13
Pathway	Arrhythmogenic right ventricular cardiomyopathy (ARVC), organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), conserved biosystem; Dilated cardiomyopathy, organism-specific biosystem; Dilated cardiomyopathy, conserved biosystem; ECM-receptor interaction, organism-specific biosystem;
Function	receptor activity;

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