

Recombinant Human ITGA8 Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. ITGA8-287H Lot. No. (See product label)

SPECIFICATION

Product Overview	ITGA8 MS Standard C13 and N15-labeled recombinant protein (NP_003629) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Integrins are heterodimeric transmembrane receptor proteins that mediate numerous cellular processes including cell adhesion, cytoskeletal rearrangement, and activation of cell signaling pathways. Integrins are composed of alpha and beta subunits. This gene encodes the alpha 8 subunit of the heterodimeric integrin alpha8beta1 protein. The encoded protein is a single-pass type 1 membrane protein that contains multiple FG-GAP repeats. This repeat is predicted to fold into a beta propeller structure. This gene regulates the recruitment of mesenchymal cells into epithelial structures, mediates cell-cell interactions, and regulates neurite outgrowth of sensory and motor neurons. The integrin alpha8beta1 protein thus plays an important role in wound-healing and organogenesis. Mutations in this gene have been associated with renal hypodysplasia/aplasia-1 (RHDA1) and with several animal models of chronic kidney disease. Alternate splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Apr 2014]
Molecular Mass	117.3 kDa

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AA Sequence

MSPGASRGPRGSQAPLIAPLCCAAAAALGMLLWSPACQAFNLDVEKLTVYSGPKGSY
 FGYAVDFHIPDARTASVLVGAPKANTSQPDIVEGGAVYYCPWPAEGSAQCRQIPFD
 TTNNRKIRVNGTKEPIEFKSNQWFGATVKAHKGKVVACAPLYHWRTLKPTPEKDPV
 GTCYVAIQNFSAEAFSPCRNSNADPEGQGYCQAGFSLDFYKNGDLIVGGPGSFY
 WQGQVITASVADIANYSFKDILRKLAGEKQTEVAPASYDDSYLGYSVAAGEFTGDS
 QQELVAGIPRGAQNFGYVSIINSTDMTFIQNFTGEQMASYFGYTVVSDVNSDGLDD
 VLVGAPLFMEREFESNPREGVQIYLYLQVSSLLFRDPQILTGTETFGFRFGSAMAHLG
 DLNQDGYNDIAIGVPFAGKDQRGKVLINGNKDG LNTKPSQVLQGVWASHAVPSGF
 GFTLRGDSIDKNDYPDLIVGAFGTGKVAVYRARPVTVDAQLLLHPMIINLENKTCQ
 VPDSMTSAACFSLRVCASVTGQSIANTIVLMAEVQLDSLKQKGAIKRTLFLDNHQA
 RVFPLVIKRQKSHQCQDFIVYLRDETEFRDKLSPINISLNYSLDESTFKEGLEVKPILN
 YYRENIVSEQAHLVDCGEDNLCVPDLKLSARPDKHQVIIGDENHMLLIINARNEGEG
 AYEAEFVMIPEEADYVGIERNKNGFRPLSCEYKMENVTRMVVCDLGNPMVSGTNY
 SLGLRFAVPRLEKTNMSINFDLQIRSSNKDNPDSNFVSLQINITAVAQVEIRGVSHPP
 QIVLPIHNWEPEEEPHKEEEVGPLVEHIYELHNIGPSTISDTILEVGWPF SARDEFLLYI
 FHIQTLGPLQCQPNPNINPQDIKPAASPEDTPELSAFLRNSTIPHLVRKRDVHVVEFH
 RQSPAKILNCTNIECLQISCAVGRLEGGESAVLKVRSRLWAHTFLQRKNDPYALASL
 VSFEVKKMPYTDQPAKLPEGSIAIKTSVIWATPNVSFSIPLWVILAILLGLLVLAITLAL
 WKCGFFDRARPPQEDMTDREQLTNDKTPEATRTRPLEQKLISEEDLAANDILDYKD
 DDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

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Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name ITGA8 integrin, alpha 8 [Homo sapiens (human)]

Official Symbol ITGA8

Synonyms ITGA8; integrin, alpha 8; integrin alpha-8;

Gene ID 8516

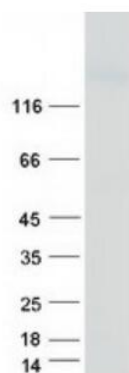
mRNA Refseq NM_003638

Protein Refseq NP_003629

MIM 604063

UniProt ID P53708

SDS-PAGE



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