

Recombinant Human ITGA5 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ITGA5-5170H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ITGA5 MS Standard C13 and N15-labeled recombinant protein (NP_002196) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The product of this gene belongs to the integrin alpha chain family. Integrins are heterodimeric integral membrane proteins composed of an alpha subunit and a beta subunit that function in cell surface adhesion and signaling. The encoded preproprotein is proteolytically processed to generate light and heavy chains that comprise the alpha 5 subunit. This subunit associates with the beta 1 subunit to form a fibronectin receptor. This integrin may promote tumor invasion, and higher expression of this gene may be correlated with shorter survival time in lung cancer patients. Note that the integrin alpha 5 and integrin alpha V subunits are encoded by distinct genes.
Molecular Mass	114.5 kDa
AA Sequence	MGSRTPEsplhAVQLRWGPRRRPPLLPLLLLLLPPPPRVGGFNLDAEAPAVLSGPP GSFFGFSVEFYRPGTDGVSVLVGAPKANTSQPGVLQGGAVYLCPWGASPTQCTPI EFDSKGSRLLESSLSSEGEETVEYKSLQWFGATVRAHGSSILACAPLYSWRTEKE PLSDPVGTCYLSTDNFTRILEYAPCRSDFSWAAGQGYCQGGFSAEFTKTGRVVLGG

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PGSYFWQGQILSATQEQIAESYYPEYLINLVQGQLQTRQASSIYDDSYLGYSVAVGE
 FSGDDTEDFVAGVPKGNLTGYVTILNGSDIRSLYNFSGEQMASYFGYAVAATDVN
 GDGLDDLLVGAPLLMDRTPDGRPQEVGRVYVYLQHPAGIEPTPTLTLTGHDEFGRF
 GSSLTPLGLDQDGYNDVAIGAPFGGETQQGVVVFVPPGGPGGLGSKPSQVLQPLW
 AASHTPDFFGSALRGGRDLGNGYPDLIVGSFGVDKAVVYRGRPIVSASASLTIFPA
 MFNPEERSCSLEGNPVACINLSFCLNASGKHVADSIGFTVELQLDWQKQKGGVRRRA
 LFLASRQATLTQTLLIQNGAREDCREMKIYLRNESEFRDKLSPIHIALNFSLDPQAPVD
 SHGLRPALHYQSKSRIEDKAQILLDCGEDNICVPDLQLEVFGEQNHVYLGDKNALNL
 TFHAQNVGEGGAYEAEELRVTAPEAEYSGLVRHPGNFSSLSCDYFAVNQSRLLVCD
 LGNPMKAGASLWGGRLRFTVPHLRDTKKTIQFDFQILSKNLNNSQSDVVSFRLSVEAQ
 AQVTLNGVSKPEAVLFPVSDWHPRDQPQKEEDLGPVHHVYELINQGPSSISQGV
 ELSCPQALEGQQLLYVTRVTGLNCTTNHPINPKGLELDPEGSLHHQKREAPSRSS
 ASSGPQILKCPEAECFRLRCELGPLHQQESQSLQLHFRVWAKTFLQREHQPFSLQC
 EAVYKALKMPYRILPRQLPQKERQVATAVQWTKAEGSYGVPLWIIILAILFGLLLGLLI
 YILYKLGFFKRSLPYGTAMEKAQLKPPATSDATRTRPLEQKLISEEDLAANDILDYKD
 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
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	ITGA5 integrin subunit alpha 5 [Homo sapiens (human)]
Official Symbol	ITGA5
Synonyms	ITGA5; integrin, alpha 5 (fibronectin receptor, alpha polypeptide); FNRA; integrin alpha-5; CD49e; VLA-5; integrin alpha-F; CD49 antigen-like family member E; fibronectin receptor subunit alpha; fibronectin receptor, alpha subunit; very late activation protein 5, alpha subunit; VLA5A;
Gene ID	3678
mRNA Refseq	NM_002205
Protein Refseq	NP_002196
MIM	135620
UniProt ID	P08648

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