

Product datasheet for PH301151

Integrin alpha 5 (ITGA5) (NM_002205) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ITGA5 MS Standard C13 and N15-labeled recombinant protein (NP_002196)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201151
Predicted MW:	114.5 kDa
Protein Sequence:	>RC201151 protein sequence Red=Cloning site Green=Tags(s)

MGSRTPEsplhAVQLRWGPRRRPPLLPLLLLLPPPPRVGGFNLDAEAPAVLSGPPGSFFGFVSVEFYRPG
TDGVSVLVGAPKANTSQPGVLQGGAVYLCWPWASPTQCTPIEFDSKGSRLLESSLSSSEGEPEVEYKSLQ
WFGATVRAHGSSILACAPLYSWRTEKEPLSDPVGTCYLSTDNFTRILEYAPCRSDFSWAAGQGYCQGGFS
AEFTKTRVVLGGPGSYFQQGILSATQEIAESYYPEYLINLVQGLQTRQASSIYDSSYLGYSVAVGE
FSGDDTEDFVAGVPKGNLTGYVVTILNGSDIRSLYNFSGEQMASYFGYAVAATDVNGDGLDLDLVGAPLL
MDRTPDGRPQEVGRVYVYLQHPAGIEPTPTLTLTGHDEFGRFGSSLTPLGDLQDQGYNDVAIGAPFGGET
QQGVVVFVPGGPGGLGSKPSQVLQPLWAASHTPDFFGSALRGGRLDGNQYDPLIVGSFVGDKAVVYRGR
PIVSASASLTIFPAMFNPEERSCSLEGNPVACINLSFCLNASGKHVADSIGFTVELQLDWQKQKGGVRRRA
LFLASRQATLTQTLLIQNGAREDCREMKIYLRNESEFRDKLSPIHIALNFSLDPQAPVDSHGLRPAHYQ
SKSRIEDKAQIILLDCGEDNICVPDLQLEVFGEQNHVYLGDKNALNLTFHAQNVGEGGAYEAEELRVTAPE
AEYSGLVHRHGNFSSLCDYFAVNQSRLLVCDLGNPMKAGASLWGLRFTVPHLRDTKTKIQFDFQILSK
NLNNSQSDVVSFRLSVEAQAQVTLNGVSKPEAVLFPVSDWHPRDQPQKEEDLGPVHHVYELINQGPSSI
SQGVLELSCPQALEGQQLLYVTRVTGLNCTTNHPINPKGLELDPEGLHHQKREAPSRSSASSGPQILK
CPEAECFRLRCELGPLHQESQSLQLHFRVWAKTFLQREHQPFSLQCEAVYKALKMPYRILPRQLPQKER
QVATAVQWTKAEGSYGVPLWIIILAILFGLLLLGLLIYILYKLGFFKRSLPYGTAMEKAQLKPPATSDA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.



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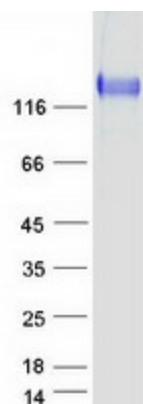
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_002196
RefSeq Size:	4267
RefSeq ORF:	3147
Synonyms:	CD49e; FNRA; VLA-5; VLA5A
Locus ID:	3678
UniProt ID:	P08648 , B2R627
Cytogenetics:	12q13.13

Summary: 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. [provided by RefSeq, Oct 2015]

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways: Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, ECM-receptor interaction, Focal adhesion, Hematopoietic cell lineage, Hypertrophic cardiomyopathy (HCM), Regulation of actin cytoskeleton

Product images:



Coomassie blue staining of purified ITGA5 protein (Cat# [TP301151]). The protein was produced from HEK293T cells transfected with ITGA5 cDNA clone (Cat# [RC201151]) using MegaTran 2.0 (Cat# [TT210002]).