

# Recombinant Full Length Human ITGA5 Protein, C-Flag-tagged

**Cat. No.** ITGA5-1624HFL    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <b>Product Overview</b> | Recombinant Full Length Human ITGA5 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | 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. |
| <b>Form</b>             | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Molecular Mass</b>   | 110 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>AA Sequence</b>      | MGSRTPEsplHAVQLRWGPRRRPPLPLLLLLLPPPPRVGGFNLD AEAPAVLSGPP<br>GSFFGFSVEFYRPG TDGVSVLVGAPKANTSQPGVLQGGAVYLC PWGASPTQCTPI<br>EFDSKGSRLLESSLSSEGE EEPVEYKSLQ WFGATVRAHGSSILACAPLYSWRTEKE<br>PLSDPVGTCYLSTDNFRILEYAPCRSDFSWAAGQGYCQGGFS AEFTKTGRVVLG                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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GPGSYFWQGQILSATQEQIAESYYPEYLINLVQGGQLQTRQASSIYDDSYLGYSVAVG  
 E FSGDDTDFVAGVPGKNLTGYVTILNGSDIRSLYNFSGEQMASYFGYAVAATDV  
 NGDGLDDLLVGAPLL MDRTPDGRPQEVGRVYVYLQHPAGIEPTPTLTLTGHDEFGR  
 FGSSLTPLGDLDDQDGYNDVAIGAPFGGET QQGVSFVFPGGPGGLGSKPSQVLQPL  
 WAASHTPDFFGSALRGGRDLGNGYPDLIVGSFGVDKAVVYRGR PIVSASASLTIF  
 PAMFNPEERSCSLEGPNVACINLSFCLNASGKHVADSIGFTVELQLDWQKQKGGVR  
 RA LFLASRQATLTQTLLIQNGAREDCREMKIYLRNESEFRDKLSPIHIALNFSLDPQA  
 PVDSHGLRPALHYQ SKSRIEDKAQILLDCGEDNICVPDLQLEVFGEQNHVYLGDKN  
 ALNLTFAHQNVGEGGAYEAELRVTAPPE AEYSGLVVRHPGNFSSLSCDYFAVNQSR  
 LLVCDLGNPMKAGASLWGGRLFTVPHLRDTKKTIQFDFQILSK NLNNSQSDVVSFR  
 LSVEAQAQVTLNGVSKPEAVLFPVSDWHPRDQPQKEEDLGPVHHVYELINQGPSS  
 I SQGVLELSCPQALEGQQLLYVTRVTGLNCTTNHPINPKGLELDPEGSLHHQKRE  
 APSRSSASSGPQILK CPEAECFRLRCELGPLHQQESQSLQLHFRVWAKTFLQREH  
 QPFSLQCEAVYKALKMPYRILPRQLPQKER QVATAVQWTKAEGSYGVPLWIIILAILF  
 GLLLLGLLIYILYKLGFFKRSLPYGTAMEKAQLKPPATSDATRTRPLEQKLISEEDLAA  
 NDILDYKDDDDKV

|                         |                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining.                                                                                  |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| <b>Storage</b>          | Store at -80 centigrade.                                                                                                                      |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method.                                                                                             |
| <b>Preparation</b>      | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                              |
| <b>Protein Families</b> | Druggable Genome, ES Cell Differentiation/IPS, Transmembrane                                                                                  |

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

**Full Length** Full L.

## GENE INFORMATION

**Gene Name** ITGA5 integrin subunit alpha 5 [ Homo sapiens (human) ]

**Official Symbol** ITGA5

**Synonyms** FNRA; CD49e; VLA-5; VLA5A

**Gene ID** 3678

**mRNA Refseq** NM\_002205.5

**Protein Refseq** NP\_002196.4

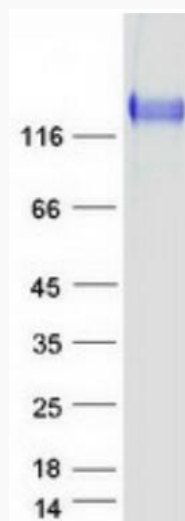
**MIM** 135620

**UniProt ID** P08648

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Coomassie blue staining of purified ITGA5 protein.

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