

Recombinant Human ITGA3 Protein, C-His-tagged

Cat. No. ITGA3-077H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human ITGA3 Protein with C-His tag was expressed in E. coli.
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Species	Human
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Source	E.coli
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Description

Integrins are heterodimers composed of non-covalently associated transmembrane α and β subunits. The 16 α and 8 β subunits heterodimerize to produce more than 20 different receptors. Most integrin receptors bind ligands that are components of the extracellular matrix, including Fibronectin, Collagen and Vitronectin. Certain integrins can also bind to soluble ligands such as Fibrinogen, or to counterreceptors on adjacent cells such as the intracellular adhesion molecules (ICAMs), leading to aggregation of cells. Ligands serve to cross-link or cluster integrins by binding to adjacent integrin receptors; both receptor clustering and ligand occupancy are necessary for the activation of integrin-mediated responses. In addition to mediating cell adhesion and cytoskeletal organization, integrins function as signaling receptors. Signals transduced by integrins play a role in many biological processes, including cell growth, differentiation, migration and apoptosis. The Integrin $\alpha 3$ chain, also known as very late (activation) antigen 3 (VLA-3), very common antigen 2 (VCA-2), extracellular matrix receptor 1 (ECMR1) and galactoprotein b3 (GAPB3), undergoes posttranslational cleavage in the extracellular domain to yield disulfide-linked light and heavy chains that join with $\beta 1$ to form an integrin that interacts with many extracellular-matrix proteins.

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Molecular Mass	~36 kDa
AA Sequence	FGYSVALHRQTERQQRYLLLAGAPRELAVPDGYTNRTGAVYLCPLTAHKDDCERM NITVKNDPGHHIIEDMWLGVTVASQGPAGRVLVCAHRYTQVLWSGSEDQRRMVGK CYVRGNDLELDSSDDWQTYHNEMCNSNTDYLETGMCQLGTSGGFTQNTVYFGAP GAYNWKGNSYMIQRKEWDLSEYSYKDPEDQGNLYIGYTMQVGSFILHPKNITIVTGA PRHRHMGAVFLLSQEAGGDLRRRQVLEGSQVGAYFGSAIALADLNNDGWQDLLVG APYYFERKEEVGGAIYVFMNQAGTSFPAHPSLLLHGPGSGSAFGLSVASI
Purity	Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).
Notes	For research use only, not for use in diagnostic procedure.
Storage	Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.
Concentration	≥0.5 mg/mL
Storage Buffer	PBS, 4M Urea, pH7.4
GENE INFORMATION	
Gene Name	ITGA3 integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor) [Homo sapiens (human)]
Official Symbol	ITGA3
Synonyms	ITGA3; integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor); antigen identified by monoclonal J143 , MSK18; integrin alpha-3; CD49c; GAP B3; VCA 2; VLA3a; FRP-2; galactoprotein B3; VLA-3 subunit alpha; CD49 antigen-like family

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member C; antigen identified by monoclonal J143; very late activation protein 3 receptor, alpha-3 subunit; VL3A; CD49C; GAPB3; MSK18; VCA-2; GAP-B3; FLJ34631; FLJ34704;

Gene ID 3675

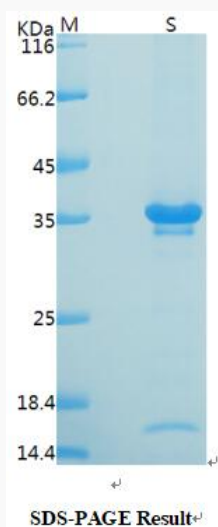
mRNA Refseq NM_002204

Protein Refseq NP_002195

MIM 605025

UniProt ID P26006

SDS-PAGE



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