

Recombinant Human ITGA4 protein, His-tagged

Cat. No. ITGA4-1541H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ITGA4(aa 131 - 275) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	131-275 a.a.
Description	The integrin alpha 4 (also known as CD49d and ITGA4) belongs to the integrin alpha chain family of proteins. Integrins are heterodimeric integral membrane proteins composed of an alpha and beta chains. Alpha 4 chain associates with either beta 1 or beta 7 chain. It has been demonstrated that the putative ligand-binding sites of both integrin 41 and 47 is located on the 4 chain. These ligands included Madcam, VCAM, and fibronectin. Madcam is known as the principal ligand for integrin a4b7. Recently it was also demonstrated that HIV-1 envelope can mimic Madcam by binding to and signaling through integrin 47, the gut mucosal homing receptor for peripheral T cells. This recombinant protein fragment includes the ligand and monoclonal antibody binding domains; this binding has been tested and verified in ELISA assays. This recombinant protein is recognized by PSI antibodies Integrin 4 (IN1) and Integrin 4 (IN2), but not Integrin 4 (CT)).
Form	50mM Tris pH7.5, 150mM NaCl, 5 mM MgCl ₂
Molecular Mass	17 kDa (Calculated)

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Purity	~95%
Applications	ELISA, WB. This recombinant protein can be used for WB and ELISA.
Notes	For research use only.
Storage	Store in working aliquots at -70 centigrade. Avoid freeze/thaw cycles. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.

GENE INFORMATION

Gene Name	ITGA4 integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor) [Homo sapiens]
Official Symbol	ITGA4
Synonyms	ITGA4; integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor); CD49D; integrin alpha-4; CD49d; 269C wild type; integrin alpha 4; integrin alpha-IV; VLA-4 subunit alpha; integrin alpha-4 subunit; CD49 antigen-like family member D; antigen CD49D, alpha-4 subunit of VLA-4 receptor; very late activation protein 4 receptor, alpha 4 subunit; IA4; MGC90518;
Gene ID	3676
mRNA Refseq	NM_000885
Protein Refseq	NP_000876
MIM	192975

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UniProt ID	P13612
Chromosome Location	2q31-q32
Pathway	Adaptive Immune System, organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), conserved biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Cell surface interactions at the vascular wall, organism-specific biosystem; Dilated cardiomyopathy, organism-specific biosystem;
Function	fibronectin binding; protein binding; receptor activity;

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