

Active Recombinant Mouse Integrin Alpha 4, His-tagged

Cat. No. Itga4-5665M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Itga4 protein was expressed in Chinese Hamster Ovary cell line. Mouse Integrin α 4, Tyr34-Gln970 and Mouse Integrin β 1 Gln21-Asp728 with an N-terminal and with a C-terminal 6-His tag.
Species	Mouse
Source	CHO
Protein Length	34-970;21-728 a.a.
Description	Itga4 is an integrin family adhesion receptor that shares the β 1 subunit with eleven other family members and the α 4 subunit with Integrin α 4 β 7. The non-covalent heterodimer of 150 kDa α 4/CD49d and 130 kDa β 1/CD29 type I transmembrane glycoprotein subunits mediates cell adhesion to VCAM-1/CD106 on other cells and the CS-1 fragment of fibronectin in the extracellular matrix. The α 4 extracellular domain (ECD) contains an N-terminal β -propeller structure, followed by domains termed thigh, calf-1 and calf-2.
Form	Lyophilized from a 0.2 μ m filtered solution in PBS.
N-terminal Sequence	Tyr34 (Integrin α 4) & Gln21 predicted (Integrin β 1)
Molecular Weight	112.9 kDa (Integrin α 4) & 86.4 kDa (Integrin β 1)

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Activity	Measured by the ability of the immobilized protein to support the adhesion of VCAM-1 transfected Chinese hamster ovary (CHO) cells. When 5x10 ⁴ cells/well are added to Recombinant Mouse Itga4 coated plates (10 µg/mL, 100 µL/well), approximately 55-85% will adhere after 1 hour at 37°C.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	145-160 kDa and 120-140 kDa, reducing conditions.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	100 µg/mL in sterile PBS
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	Itga4 integrin alpha 4 [Mus musculus]
Official Symbol	Itga4
Synonyms	Itga4; integrin alpha 4; CD49D; integrin alpha-4; integrin alpha-IV; LPAM subunit alpha; VLA-4 subunit alpha; VLA-4 receptor, alpha 4 subunit; CD49 antigen-like family member D; lymphocyte Peyer patch adhesion molecules subunit alpha
Gene ID	16401
mRNA Refseq	NM_010576

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Protein Refseq	NP_034706
UniProt ID	P09055
Chromosome Location	2
Pathway	Adaptive ImmuneSystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC); Cell adhesionmolecules (CAMs); Cell surface interactions at the vascular wall; Dilatedcardiomyopathy; ECM-receptor interaction; Focal Adhesion; Hemartopoietic celllineage; Hemostasis; Hypertrophic cardiomyopathy (HCM); Immune System;Integrin cell surface interactions; Integrin-mediated cell adhesion;Intestinal immune network for IgA production; Leishmaniasis; Leukocytetransendothelial migration; Regulation of actin cytoskeleton; SignalTransduction
Function	fibronectin binding;fibronectin binding

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