

Active Recombinant Human ITGA5 & ITGB1 Heterodimer protein, His-Avi-tagged, Low Endotoxin

Cat. No. ITGA5 & ITGB1-567H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ITGA5 & ITGB1 Heterodimer protein(P08648(ITGA5) & P05556-1(ITGB1))(42-995 aa(ITGA5) & 21-728 aa(ITGB1)), fused with C-terminal His and Avi tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	42-995 aa(ITGA5) & 21-728 aa(ITGB1)
Form	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Bio-activity	Immobilized Human ITGA5&ITGB1, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Anti-ITGA5&ITGB1 Antibody, hFc Tag with the EC50 of 16.6ng/ml determined by ELISA.
Molecular Mass	The protein has a predicted MW of 111.8 kDa (ITGA5) & 83.2 kDa (ITGB1). Due to glycosylation, the protein migrates to 100-140 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage -20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Reconstitution Dissolve the lyophilized protein in distilled water.

GENE INFORMATION

Gene Name [ITGA5 integrin, alpha 5 \(fibronectin receptor, alpha polypeptide\) \[Homo sapiens \]](#)

Official Symbol [ITGA5](#)

Synonyms ITGA5; integrin, alpha 5 (fibronectin receptor, alpha polypeptide); FNRA; integrin alpha-5; CD49e; VLA-5; integrin alpha-F; CD49 antigen-like family member E; fibronectin receptor subunit alpha; fibronectin receptor, alpha subunit; very late activation protein 5, alpha subunit; VLA5A;

Gene ID [3678](#)

mRNA Refseq [NM_002205](#)

Protein Refseq [NP_002196](#)

MIM [135620](#)

UniProt ID [P08648](#)

Gene Name 2 [ITGB1 integrin, beta 1 \(fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12\) \[Homo sapiens \]](#)

Official Symbol 2 [ITGB1](#)

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Synonyms 2	ITGB1; integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12); FNRB, MDF2, MSK12; integrin beta-1; CD29; GPIIA; integrin VLA-4 beta subunit; very late activation protein, beta polypeptide; FNRB; MDF2; VLAB; MSK12; VLA-BETA;
Gene ID 2	3688
mRNA Refseq 2	NM_002211
Protein Refseq 2	NP_002202
MIM 2	135630
UniProt ID 2	P05556
Bis-Tris PAGE	