

Integrin alpha 4 beta 1 Protein, Human, Recombinant (His & Avi)

General Information

Synonyms:	beta1;β1;Integrin alpha 4 β 1;Integrin alpha 4 beta 1;ITGA4&ITGB1;alpha 4
Protein Construction:	Tyr34-Thr977 (ITGA4) acidic tail and Gln21-Asp728 (ITGB1) basic tail
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P13612-1(ITGA4)&P05556-1(ITGB1)
Molecular Weight:	112.5 kDa (ITGA4) and 83.2 kDa (ITGB1) (Predicted); 70-90 kDa and 120-160 kDa (Reducing condition, due to glycosylation)

QC Testing

Biological Activity:	Immobilized Human ITGA4&ITGB1, His Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Anti-ITGA4 Antibody, hFc Tag with the EC50 of 7.0 ng/ml determined by ELISA (QC Test).
Purity:	> 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC
Endotoxin:	< 1 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Integrins alpha-4/beta-1 (VLA-4) and alpha-4/beta-7 are receptors for fibronectin. They recognize one or more domains within the alternatively spliced CS-1 and CS-5 regions of fibronectin. They are also receptors for VCAM1. Integrin alpha-4/beta-1 recognizes the sequence Q-I-D-S in VCAM1. Integrin alpha-4/beta-7 is also a receptor for MADCAM1.

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