

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

General Information

Synonyms:	Integrin alpha V β 1;ITGAV&ITGB1;Integrin alpha V beta 1; α V β 1
Protein Construction:	Phe31-Val992 (ITGAV) acidic tail and Gln21-Asp728 (ITGB1) basic tail
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P06756-1(ITGAV)&P05556-1(ITGB1)
Molecular Weight:	114 kDa (ITGAV) and 83.2 kDa (ITGB1) (Predicted); 140-170 kDa (ITGAV) and 105-135 kDa (ITGB1) (Reducing condition, due to glycosylation)

QC Testing

Biological Activity:	Immobilized Biotinylated Human ITGAV&ITGB1, His Avi Tag at 0.5 μ g/ml (100 μ l/well) on the streptavidin precoated plate (5 μ g/ml). Dose response curve for Anti-ITGAV Antibody, hFc Tag with the EC50 of 11.2 ng/ml determined by ELISA (QC Test).
Purity:	> 95% as determined by Bis-Tris PAGE; > 90% as determined by HPLC
Endotoxin:	< 1 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 μ m filtered solution in PBS, 8% trehalose (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 μ g/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 are transmembrane heterodimeric receptors that contribute to diverse biological functions and play a conserved role in mediating cell adhesion to fixed extracellular ligands and in the maintenance of tissue integrity. α V β 1 is the major integrin on several different primary fibroblasts responsible for binding to TGF β 1 LAP and for mediating activation of latent TGF β by these cells.

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