

Integrin alpha 6 beta 1 Protein, Human, Recombinant (His & Avi), Biotinylated

General Information

Synonyms:	Integrin alpha 6 beta 1; $\alpha 6\beta 1$; Integrin alpha 6 β 1; ITGA6&ITGB1
Protein Construction:	Phe24-Gly1012 (ITGA6) acidic tail and Gln21-Asp728 (ITGB1) basic tail
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P23229-2(ITGA6)&P05556-1(ITGB1)
Molecular Weight:	117.9 kDa (ITGA6) and 83.2 kDa (ITGB1) (Predicted); 140-160 kDa (ITGA6) and 110-150 kDa (ITGB1) (Non-reducing condition, due to glycosylation)

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it.
Purity:	> 95% as determined by Bis-Tris PAGE
Endotoxin:	< 1 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 μ m filtered solution in PBS (pH 7.4).

Preparation and Storage

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

Integrin alpha-6/beta-1 (ITGA6:ITGB1) is a receptor for laminin on platelets. Integrin alpha-6/beta-1 (ITGA6:ITGB1) is present in oocytes and is involved in sperm-egg fusion. Integrin alpha-6/beta-4 (ITGA6:ITGB4) is a receptor for laminin in epithelial cells and it plays a critical structural role in the hemidesmosome (By similarity). ITGA6:ITGB4 binds to NRG1 (via EGF domain) and this binding is essential for NRG1-ERBB signaling

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