



**Synonym**

Integrin alpha 6 beta 4, ITGA6&ITGB4

**Source**

Human Integrin alpha 6 beta 4 Protein, His Tag&Tag Free(IN4-H52W3) is expressed from human 293 cells (HEK293). It contains AA Phe 24 - Gly 1012 | Asn 28 - Ser 710 (Accession # [P23229-2](#) & [P16144-2](#)).

Predicted N-terminus: Phe 24 | Asn 28

**Molecular Characterization**

ITGA6 (Phe 24 - Gly 1012) P23229-2	Acidic Tail	Poly-his
ITGB4 (Asn 28 - Ser 710) P16144-2	Basic Tail	

Human Integrin alpha 6 beta 4 Protein, His Tag&Tag Free, produced by co-expression of ITGA6 and ITGB4, has a calculated MW of 116.8 kDa (ITGA6) and 81.8 kDa (ITGB4). Subunit ITGA6 is fused with an acidic tail at the C-terminus and followed by a polyhistidine tag and subunit ITGB4 contains no tag but a basic tail at the C-terminus. The non-reducing (NR) protein migrates as 130-140 kDa (ITGA6) and 75-85 kDa (ITGB4) respectively due to glycosylation.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method / rFC method.

**Purity**

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

**Formulation**

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 150 mM NaCl, 0.2 M Arginine, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

**Storage**

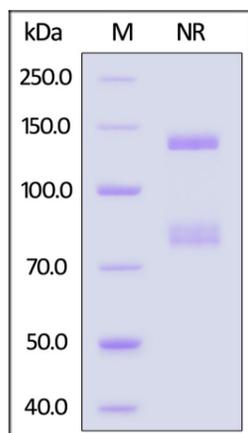
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

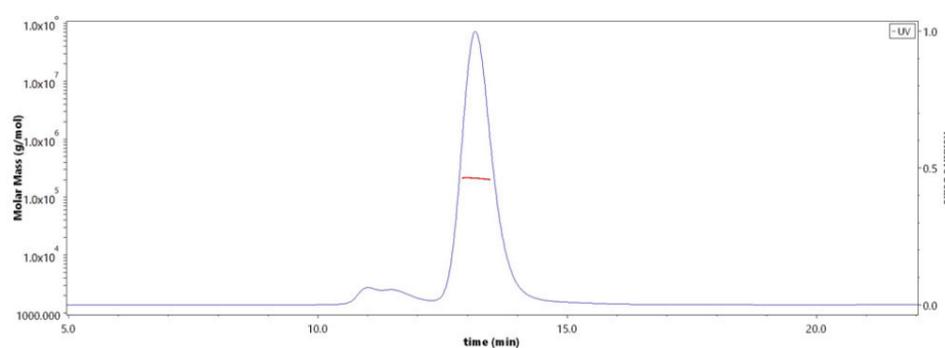
**SDS-PAGE**



Human Integrin alpha 6 beta 4 Protein, His Tag&Tag Free on SDS-PAGE under non-reducing (NR) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

**Bioactivity-ELISA**

**SEC-MALS**



The purity of Human Integrin alpha 6 beta 4 Protein, His Tag&Tag Free (Cat. No. IN4-H52W3) is more than 90% and the molecular weight of this protein is around 195-220 kDa verified by SEC-MALS.

[Report](#)

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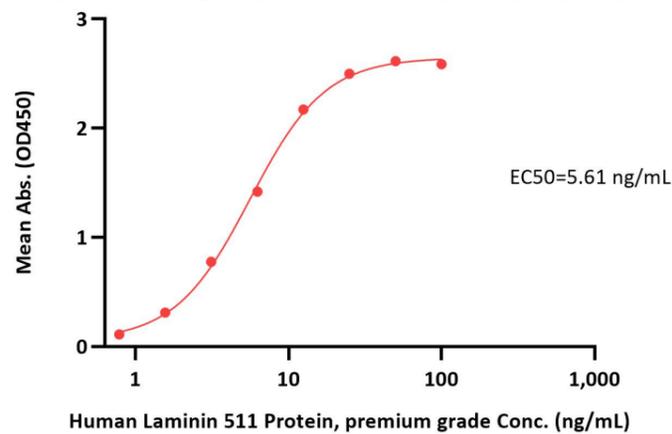
# Human Integrin alpha 6 beta 4 Protein, His Tag&Tag Free (MALS verified)

Catalog # IN4-H52W3

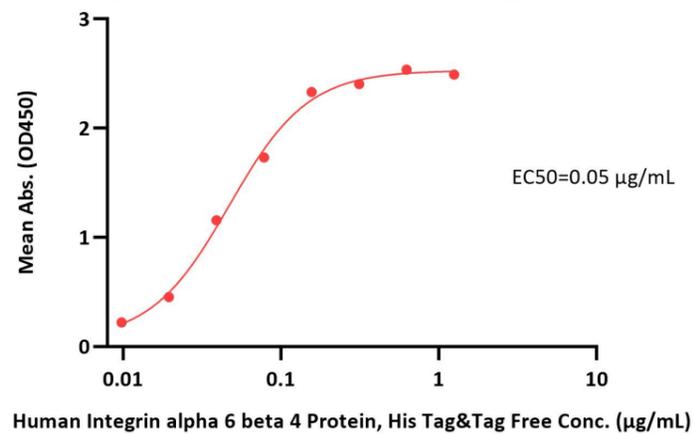


BIOSYSTEMS  
**Acro**

Human Integrin alpha 6 beta 4 Protein, His Tag&Tag Free ELISA  
0.5 µg of Human Integrin alpha 6 beta 4 Protein, His Tag&Tag Free per well



Human Integrin alpha 6 beta 4 Protein, His Tag&Tag Free ELISA  
0.5 µg of Human Laminin 511 Protein, premium grade per well



Immobilized Human Integrin alpha 6 beta 4 Protein, His Tag&Tag Free (Cat. No. IN4-H52W3) at 5 µg/mL (100 µL/well) can bind Human Laminin 511 Protein, premium grade (Cat. No. LA8-H5283) with a linear range of 0.8-13 ng/mL (QC tested).

Immobilized Human Laminin 511 Protein, premium grade (Cat. No. LA8-H5283) at 5 µg/mL (100 µL/well) can bind Human Integrin alpha 6 beta 4 Protein, His Tag&Tag Free (Cat. No. IN4-H52W3) with a linear range of 0.01-0.156 µg/mL (Routinely tested).

## Background

Human integrin alpha(10)I domain as a recombinant protein to reveal its ligand binding specificity. In general, alpha(10)I did recognize collagen types I-VI and laminin-1 in a Mg(2+)-dependent manner, whereas its binding to tenascin was only slightly better than to albumin. Alpha 10 beta 1 is a known collagen-binding I domain integrin, in addition to  $\alpha 1\beta 1$ ,  $\alpha 2\beta 1$  and  $\alpha 11\beta 1$ . GROGER found in the N-terminal domain of collagens I and III, is only weakly recognised by  $\alpha 10\beta 1$ , an important collagen receptor on chondrocytes, contrasting with the other collagen-binding integrins.

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