

Biotinylated Human Integrin alpha V beta 8 (ITGAV&ITGB8) Heterodimer Protein



Cat. No. ITG-HM4V8B

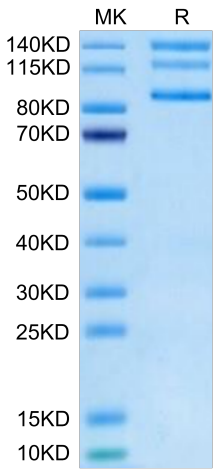
| Description      |                                                                                                                                                                                                                                                           |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source           | Recombinant Biotinylated Human Integrin alpha V beta 8 (ITGAV&ITGB8) Heterodimer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus of ITGAV.<br>It contains Phe31-Val992(ITGAV) acidic tail and Glu43-Arg684(ITGB8) basic tail. |
| Accession        | P06756-1(ITGAV)&P26012-1(ITGB8)                                                                                                                                                                                                                           |
| Molecular Weight | The protein has a predicted MW of 114 kDa (ITGAV) and 76 kDa (ITGB8). Due to glycosylation, the protein migrates to 85-145 kDa based on Bis-Tris PAGE result.                                                                                             |
| Endotoxin        | Less than 1 EU per µg by the LAL method.                                                                                                                                                                                                                  |
| Purity           | > 95% as determined by Bis-Tris PAGE<br>> 95% as determined by HPLC                                                                                                                                                                                       |

| Formulation and Storage |                                                                                                                                                                                                                         |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Formulation             | Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.                                                                                          |
| Reconstitution          | Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.                                                                                             |
| 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. |

| Background                                                                                                                                                                                                                                                                                  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Deletions of the genes encoding the integrin αVβ8 (Itgav, Itgb8) have been shown to result in abnormal vascular development in the CNS, including prenatal and perinatal hemorrhage. Other work has indicated that a major function of this integrin in vivo is to promote TGFβ activation. |  |

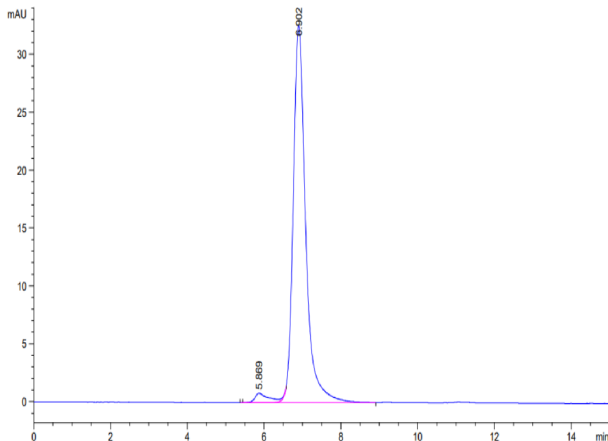
Assay Data

Bis-Tris PAGE



Biotinylated Human Integrin alpha V beta 8 (ITGAV&ITGB8) Heterodimer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Biotinylated Human Integrin alpha V beta 8 (ITGAV&ITGB8) Heterodimer is greater than 95% as determined by SEC-HPLC.

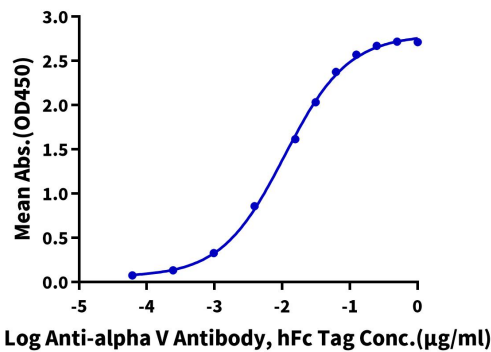
Cat. No. ITG-HM4V8B

Assay Data

ELISA Data

Biotinylated Human ITGAV&ITGB8, His Tag ELISA

0.2µg Biotinylated Human ITGAV&ITGB8, His Tag Per Well

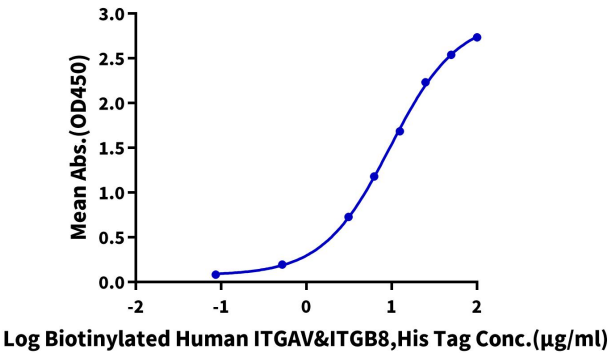


Immobilized Biotinylated Human ITGAV&ITGB8, His Tag at 2µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-alpha V Antibody, hFc Tag with the EC50 of 10.8ng/ml determined by ELISA.

ELISA Data

Biotinylated Human ITGAV&ITGB8, His Tag ELISA

0.5µg Human Latent TGF beta 1, HisTag Per Well



Immobilized Human Latent TGF beta 1, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human ITGAV&ITGB8, His Tag with the EC50 of 9.62ug/ml determined by ELISA.