

## PRODUCT INFORMATION

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| <b>Target</b>                           | ITGAV and ITGB6  |
| <b>Synonyms</b>                         | CD51; MSK8; VNRA; VTNR and AI1H  |
| <b>Description</b>                      | Recombinant human ITGAV protein with C-terminal 6×His tag and human ITGB6 protein with C-terminal human Fc tag   |
| <b>Delivery</b>                         | In Stock   |
| <b>Uniprot ID</b>                       | P06756 and P18564  |
| <b>Expression Host</b>                  | HEK293   |
| <b>Tag</b>                              | C-6×His tag and C-Human Fc tag   |
| <b>Molecular Characterization</b>       | ITGAV(Phe31-Val992) 6×His tag and ITGB6(Gly22-Asn707) hFc(Glu99-Ala330)  |
| <b>Molecular Weight</b>                 | The protein has a predicted molecular mass of 107.1 and 100.4 kDa after removal of the signal peptide. The apparent molecular mass of ITGAV-His abd ITGB6-hFc is approximately 130-250 kDa due to glycosylation.   |
| <b>Purity</b>                           | The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.   |
| <b>Formulation &amp; Reconstitution</b> | Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions.   |
| <b>Storage&amp;Shipping</b>             | Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.  |
| <b>Background</b>                       | Integrin alpha V beta 6 is a heterodimer of beta-6 associating with alpha-V. Integrin alpha-V beta-6 is a receptor for fibronectin and cytotactin. It recognizes the sequence R-G-D in its ligands. Internalisation of integrin alpha-V beta-6 via clathrin-mediated endocytosis promotes carcinoma cell invasion. Also, Integrin alpha-V beta-6 acts as a receptor for coxsackievirus A9 and coxsackievirus B1 as well as herpes simplex virus-1/HHV-1. Furthermore, it binds the TGF-beta latency-associated peptide (LAP) and activates TGF-beta 1 or TGF-beta 3 from large latent complexes. This activation requires interaction with LTBP-1 and fibronectin, and is enhanced by PAR-1. |
| <b>Usage</b>                            | Research use only  |
| <b>Conjugate</b>                        | Unconjugated   |



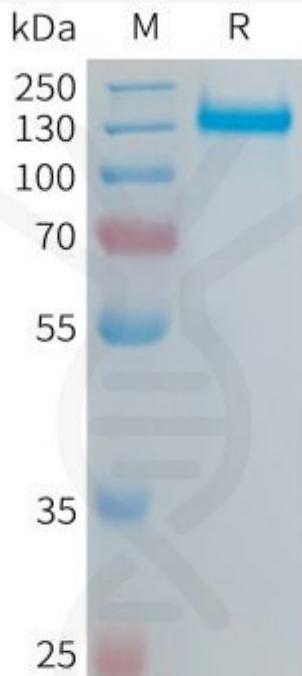


Figure 1. Human ITGAV and ITGB6 Protein, His and hFc Tag on SDS-PAGE under reducing condition.

