

## Active Recombinant Rat ITGAV&ITGB6 protein, His-tagged

**Cat. No.** ITGAV&ITGB6-1595R    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Rat ITGAV&ITGB6 protein(Phe31-Pro988(ITGAM)&Gly22-Pro708(ITGB6)), fused with His tag, was expressed in HEK293.                                                                                                                                                                                                              |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | 31-988;22-708 a.a.                                                                                                                                                                                                                                                                                                                      |
| <b>Form</b>             | Lyophilized from 0.22 µm filtered solution in 50 mM Tris,150 mM NaCl,pH7.5 with trehalose as protectant.                                                                                                                                                                                                                                |
| <b>Bio-activity</b>     | Immobilized Human Fibronectin at 5 µg/mL (100 µL/well) can bind Rat ITGAV&ITGB6 Heterodimer, His Tag&Tag Free with a linear range of 0.02-0.625 µg/mL.Immobilized Rat ITGAV&ITGB6 Heterodimer, His Tag&Tag Free at 5 µg/mL (100 µL/well) can bind Biotinylated Human Latent TGF-Beta 1, His,Avitag with a linear range of 0.3-10 ng/mL. |
| <b>Molecular Mass</b>   | Molecular CharacterizationRat ITGAV&ITGB6 Heterodimer, His Tag&Tag Free, has a calculated MW of 112.3 kDa (ITGAV) & 80.1 kDa (ITGB6). Subunit ITGAV is fused with an acidic tail at the C-terminus and followed by a polyhistidine tag and subunit ITGB6 contains no tag but a basic tail at the C-terminus.                            |
| <b>Proteinlength</b>    | Phe31-Pro988(ITGAM)&Gly22-Pro708(ITGB6)                                                                                                                                                                                                                                                                                                 |

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|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>      | Less than 1.0 EU per µg by the LAL method.                                                                                                                                                                                                                                          |
| <b>Purity</b>         | >90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                     |
| <b>Storage</b>        | For long term, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. This product is stable after at: -20°C to -70°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution. |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.                                                                                                       |

## GENE INFORMATION

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|------------------------|--------------------------------------------------------------------------|
| <b>Gene Name</b>       | <i>Itgav</i> integrin, alpha V [ <i>Rattus norvegicus</i> ]              |
| <b>Official Symbol</b> | <b>ITGAV</b>                                                             |
| <b>Synonyms</b>        | ITGAV; integrin, alpha V; integrin alpha-V; Dnmt3l-ps1 pseudogene; Cd51; |
| <b>Gene ID</b>         | 296456                                                                   |
| <b>mRNA Refseq</b>     | NM_001106549                                                             |
| <b>Protein Refseq</b>  | NP_001100019                                                             |

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