

## Active Recombinant Human Itgb1 protein, His-tagged

**Cat. No.** Itgb1-1624H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Product Overview</b> | Recombinant Human Itgb1 protein(Phe24-Gly1012 Asn28-Ser710), fused with His tag, was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>    | 24-1012;28-710 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Form</b>             | Lyophilized from 0.22 µm filtered solution in 50 mM Tris,150 mM NaCl,0.2 M Arginine,pH7.5 with trehalose as protectant.                                                                                                                                                                                                                                                                                                                                             |
| <b>Bio-activity</b>     | Immobilized Human Integrin alpha 6 beta 4 Protein, His Tag&Tag Free at 5 µg/mL (100 µL/well) can bind Human Laminin 511 E8, Fc Tag with a linear range of 0.8-13 ng/mL.Immobilized Human Laminin 511 E8, Fc Tag at 5 µg/mL (100 µL/well) can bind Human Integrin alpha 6 beta 4 Protein, His Tag&Tag Free with a linear range of 0.01-0.156 µg/mL.                                                                                                                  |
| <b>Molecular Mass</b>   | 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. |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Proteinlength</b>  | Phe24-Gly1012 Asn28-Ser710                                                                                                                                                                                                                                                          |
| <b>Endotoxin</b>      | Less than 1.0 EU per µg by the LAL method.                                                                                                                                                                                                                                          |
| <b>Purity</b>         | >95% as determined by SDS-PAGE. >90% as determined by SEC-MALS.                                                                                                                                                                                                                     |
| <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

|                        |                                                                                                                                                                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | ITGB1 integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12) [ Homo sapiens ]                                                                                                                                                   |
| <b>Official Symbol</b> | <a href="#">Itgb1</a>                                                                                                                                                                                                                                                 |
| <b>Synonyms</b>        | ITGB1; integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12); FNRB, MDF2, MSK12; integrin beta-1; CD29; GPIIA; integrin VLA-4 beta subunit; very late activation protein, beta polypeptide; FNRB; MDF2; VLAB; MSK12; VLA-BETA; |
| <b>Gene ID</b>         | <a href="#">3688</a>                                                                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>     | <a href="#">NM_002211</a>                                                                                                                                                                                                                                             |
| <b>Protein Refseq</b>  | <a href="#">NP_002202</a>                                                                                                                                                                                                                                             |

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| MIM | 135630 |
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| UniProt ID | P05556 |
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