

## ITGA2 recombinant protein

Human ITGA2 Protein, His Tag

CATALOG #  
**AAA47545**HOST  
**HEK293**

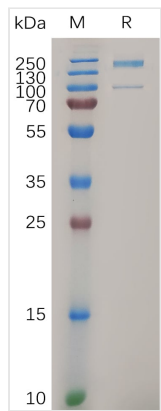
### PRODUCT SYNONYMS

ITGA2; Human ITGA2 Protein; His Tag; Integrin alpha-2; Collagen receptor; GPIa; CD49b; ITGA2 recombinant protein

### PRODUCT SPECIFICATIONS

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                       | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Purity/Purification        | The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.                                                                                                                                                                                                                                                                                                                                                                                                     |
| Form/Format                | Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.                                                                                                                                                                                                                                                                                                             |
| Tag                        | C-6xHis tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Reconstitution             | <ol style="list-style-type: none"><li>1. Before opening the tube cap, centrifuge the sample tube at 5000g for 3-5 min at room temperature to ensure the lyophilized sample to settle down at the bottom of the tube.</li><li>2. Dissolved lyophilized protein sample in sterile water based on the recommended volume 128.21 uL</li><li>3. After adding sterile water, cover the lid and mix them by gently tapping the tube for 5-10 times. Note: Do not vortex or vigorously pipette sample.</li></ol> |
| Molecular Characterization | ITGA2(Tyr30-Thr1132) 6xHis tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Visual Inspection          | <p>Test: Lyophilization<br/>Specification: Dried white powder<br/>Result: Pass</p> <p>Test: Vial label<br/>Specification: Label, Aligned and complete<br/>Result: Pass</p> <p>Test: Bottle sealing (manual check)<br/>Specification: Sealed tight<br/>Result: Pass</p>                                                                                                                                                                                                                                   |
| Quantity                   | <p>Test: Bradford Method<br/>Specification: <math>\geq</math> Specified quantity<br/>Result: Pass</p>                                                                                                                                                                                                                                                                                                                                                                                                    |
| Other Properties           | <p>Test: pH<br/>Specification: <math>7.4 \pm 0.5</math><br/>Result: Pass</p>                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Preparation and Storage    | Store at -20 degree C to -80 degree C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80 degree C (Avoid repeated freezing and thawing).                                                                                                                                                                                                                                                                                          |

IMAGES



SDS-PAGE  
Figure 1. Human ITGA2, His Tag on SDS-PAGE under reducing condition.

ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for ITGA2 recombinant protein | Recombinant human ITGA2 Protein with C-terminal 6×His tag<br>This gene encodes the alpha subunit of a transmembrane receptor for collagens and related proteins. The encoded protein forms a heterodimer with a beta subunit and mediates the adhesion of platelets and other cell types to the extracellular matrix. Loss of the encoded protein is associated with bleeding disorder platelet-type 9. Antibodies against this protein are found in several immune disorders, including neonatal alloimmune thrombocytopenia. This gene is located adjacent to a related alpha subunit gene. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012] |
| Product Categories/Family for ITGA2 recombinant protein   | Bioactive Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                                                 |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 116295258                                                                                                                                                                                                                                                       |
| NCBI GeneID                      | 3673                                                                                                                                                                                                                                                            |
| NCBI Accession #                 | NP_002194.2                                                                                                                                                                                                                                                     |
| NCBI GenBank Nucleotide #        | NM_002203.3                                                                                                                                                                                                                                                     |
| UniProt Accession #              | P17301; Q14595                                                                                                                                                                                                                                                  |
| Molecular Weight                 | The protein has a predicted molecular mass of 121.8 kDa after removal of the signal peptide. The apparent molecular mass of ITGA2-His is approximately 130-250 kDa due to glycosylation.                                                                        |
| NCBI Official Full Name          | integrin alpha-2                                                                                                                                                                                                                                                |
| NCBI Official Synonym Full Names | integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)                                                                                                                                                                                                    |
| NCBI Official Symbol             | ITGA2                                                                                                                                                                                                                                                           |
| NCBI Official Synonym Symbols    | BR; GPIa; CD49B; HPA-5; VLA-2; VLAA2                                                                                                                                                                                                                            |
| NCBI Protein Information         | integrin alpha-2; collagen receptor; platelet antigen Br; platelet glycoprotein GPIa; VLA2 receptor, alpha-2 subunit; CD49 antigen-like family member B; platelet membrane glycoprotein Ia; human platelet alloantigen system 5; very late activation protein 2 |
| UniProt Protein Name             | Integrin alpha-2                                                                                                                                                                                                                                                |
| UniProt Gene Name                | ITGA2                                                                                                                                                                                                                                                           |
| UniProt Synonym Gene Names       | CD49B; GPIa                                                                                                                                                                                                                                                     |
| UniProt Entry Name               | ITA2_HUMAN                                                                                                                                                                                                                                                      |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/itga2-recombinant-protein-hek293/47545>