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# Recombinant Rat KLRB1A/CD161a protein (rFc Tag)

Catalog Number: Eg1466



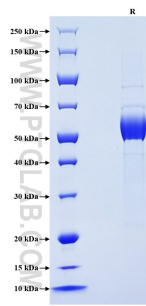
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|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------|
| Basic Information        | <b>Species:</b><br>Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Purity:</b><br>>90 %, SDS-PAGE | <b>Tag:</b><br>rFc Tag |
| Technical Specifications | <b>Purity:</b><br>>90 %, SDS-PAGE<br><b>Endotoxin Level:</b><br><0.1 EU/µg protein, LAL method<br><b>Source:</b><br>HEK293-derived Rat KLRB1A protein Arg64-Ser223 (Accession# P27471) with a rabbit IgG Fc tag at the C-terminus.<br><b>GeneID:</b><br>362443<br><b>Accession:</b><br>P27471<br><b>Predicted Molecular Mass:</b><br>44.3 kDa<br><b>SDS-PAGE:</b><br>50-65 kDa, reducing (R) conditions<br><b>Formulation:</b><br>Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization. |                                   |                        |
| Biological Activity      | Not tested                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                   |                        |
| Storage and Shipping     | <b>Storage:</b><br>It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"><li>• Until expiry date, -20°C to -80°C as lyophilized proteins.</li><li>• 3 months, -20°C to -80°C under sterile conditions after reconstitution.</li></ul> <b>Shipping:</b><br>The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.                                                                                                                    |                                   |                        |
| Reconstitution           | Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                   |                        |
| Background               | CD161, also known as KLRB1 or NKR-P1A, is a type II transmembrane C-type lectin-like receptor and is expressed on the cell membrane as disulfide-linked homodimer. It is expressed by the majority of NK cells and subsets of peripheral T cells, including both CD4+ and CD8+ T cells, and is expressed preferentially on adult T cells with a "memory" antigenic phenotype. Expression of CD161 correlates with the cytotoxic function of CD16+ NK cells, and ligation of CD161 with its ligand LLT1 inhibits NK cell cytotoxicity and cytokine secretion.                       |                                   |                        |
| References               | <ol style="list-style-type: none"><li>1.Lanier LL, et al. (1994) J Immunol. 153(6):2417-28.</li><li>2.Fergusson JR, et al. (2011) Front Immunol. 2:36.</li><li>3.Kurioka A, et al. (2018) Front Immunol. 9:486.</li></ol>                                                                                                                                                                                                                                                                                                                                                          |                                   |                        |
| Synonyms                 | Antigen 3.2.3, CD161 antigen-like family member A, CD161a, Killer cell lectin-like receptor subfamily B member 1A, Klrp1a                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |                        |

For technical support and original validation data for this product please contact

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## Selected Validation Data



Purity of Recombinant Rat KLRB1A was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.