

For Research Use Only

# Recombinant Mouse CD164 protein (rFc Tag)



Catalog Number: Eg2645

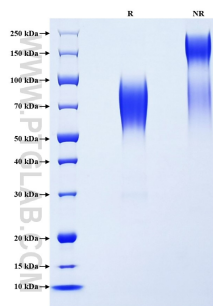
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                 |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------|
| Basic Information        | Species:<br>Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Purity:<br>>90 %, SDS-PAGE | Tag:<br>rFc Tag |
| Technical Specifications | <p><b>Purity:</b><br/>&gt;90 %, SDS-PAGE</p> <p><b>Endotoxin Level:</b><br/>&lt;0.1 EU/µg protein, LAL method</p> <p><b>Source:</b><br/>HEK293-derived Mouse CD164 protein Gln24-Asp162 (Accession# Q9R0L9) with a rabbit IgG Fc tag at the C-terminus.</p> <p><b>GeneID:</b><br/>53599</p> <p><b>Accession:</b><br/>Q9R0L9</p> <p><b>Predicted Molecular Mass:</b><br/>40.8 kDa</p> <p><b>SDS-PAGE:</b><br/>52-100 kDa, reducing (R) conditions</p> <p><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.</p>                                                                                                                                                                                           |                            |                 |
| Biological Activity      | Not tested                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                            |                 |
| Storage and Shipping     | <p><b>Storage:</b><br/>It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <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> <p><b>Shipping:</b><br/>The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>                                                                                                                                                                                                                                                                                                                                                |                            |                 |
| Reconstitution           | Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                 |
| Background               | <p>Sialomucins are a heterogeneous group of secreted or membrane-associated mucins that appear to play 2 key but opposing roles in vivo: first as cytoprotective or antiadhesive agents, and second as adhesion receptors. CD164 is a type I integral transmembrane sialomucin that functions as an adhesion receptor. Sialomucin CD164 (MUC-24), also referred to multi-glycosylated core protein 24 (MGC24), is known to function as a receptor that regulates stem cell localization to the bone marrow. CD164 may play a key role in hematopoiesis by facilitating the adhesion of CD34+ cells to the stroma and by negatively regulating CD34+CD38(lo/-) cell proliferation. Important role of CD164 in prostate cancer metastasis, promoting myogenesis and regulating myoblast migration so far have been revealed.</p> |                            |                 |
| References               | <ol style="list-style-type: none"><li>1. Watt SM, et al. (1998) Blood. 1;92(3):849-66.</li><li>2. Forde S, et al. (2007) Blood. 1;109(5):1825-33.</li><li>3. Zannettino AC, et al. (1998) Blood. 15;92(8):2613-28.</li><li>4. Havens AM, et al. (2006) BMC Cancer. 21;6:195.</li></ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |                 |
| Synonyms                 | CD164, Endolyn, MGC-24, MGC-24v, MUC-24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                            |                 |

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

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## Selected Validation Data



Purity of Recombinant Mouse CD164 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.