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# Recombinant Mouse Semaphorin 4D/CD100 protein (rFc Tag)



Catalog Number: Eg1432

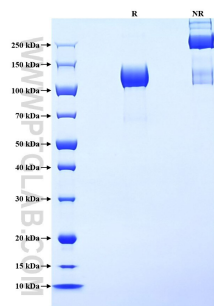
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                 |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------|
| 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 Semaphorin 4D protein Phe24-Arg733 (Accession# 009126) with a rabbit IgG Fc tag at the C-terminus.</p> <p><b>GeneID:</b><br/>20354</p> <p><b>Accession:</b><br/>009126</p> <p><b>Predicted Molecular Mass:</b><br/>105.1 kDa</p> <p><b>SDS-PAGE:</b><br/>110-150 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>CD100 (also known as SEMA4D), a 150 kDa homodimer, belongs to the family of immune semaphorins. CD100 is a protein from the semaphorin family with important roles in the vascular, nervous and immune systems. It may be found as a membrane bound dimer or as a soluble molecule originated by proteolytic cleavage. CD100 is expressed by most cells of the hematopoietic system, including lymphoid cells such as B and T lymphocytes and natural killer cells, as well as myeloid cells (neutrophils, platelets, and monocytes) and endothelial cells, and its expression usually increases upon activation).</p>                      |                            |                 |
| References               | <ol style="list-style-type: none"><li>1. Luque MCA. et al. (2018) Front Cardiovasc Med. 5:136.</li><li>2. Luque MC. et al. (2015) Mol Immunol. 67(2 Pt B):559-67.</li><li>3. Elhabazi A. et al. (2001) J Immunol. 166(7):4341-7.</li></ol>                                                                                                                                                                                                                                                                                                                                                                                                     |                            |                 |
| Synonyms                 | CD100, M-Sema G, Sema J, Sema4d, Semacl2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |                 |

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

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## Selected Validation Data



Purity of Recombinant Mouse Semaphorin 4D 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.