

DESCRIPTION

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| Species Reactivity | Mouse |
| Specificity | Detects mouse DCAR/CLEC4B in direct ELISAs and Western blots. In Western blots, approximately 15% cross-reactivity with recombinant mouse DCIR is observed. |
| Source | Polyclonal Goat IgG |
| Purification | Antigen Affinity-purified |
| Immunogen | Mouse myeloma cell line NS0-derived recombinant mouse DCAR/CLEC4B Gln42-Leu209 Accession # Q7TS58 |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS. |

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

| | Recommended Concentration | Sample |
|-----------------------|--|---|
| Western Blot | 0.1 µg/mL | Recombinant Mouse DCAR/CLEC4B |
| Flow Cytometry | 2.5 µg/10 ⁶ cells | Mouse bone marrow-derived dendritic cells |
| CyTOF-ready | Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation. | |

PREPARATION AND STORAGE

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| Reconstitution | Reconstitute at 0.2 mg/mL in sterile PBS. |
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

BACKGROUND

DCAR is a type II membrane protein belonging to the C-type lectin domain family and is designated CLEC4B. Two isoforms of DCAR, including the 209 amino acid (aa) residue alpha isoform and a 176 aa form with a 33 aa deletion at the membrane proximal region of the extracellular domain, exist. The DCAR extracellular domain contains a carbohydrate-recognition domain (CRD) that shares 91% amino acid sequence identity with the CRD of DCIR/CLEC4A. The DCAR intracellular domain is very short and lacks the ITIM motif found in DCIR. DCAR and DCIR are considered paired immunoregulatory receptors where DCAR activates through the ITAM of its associated adaptor molecule FcRγ.