

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse DCAR/CLEC4B in direct ELISAs.
Source	Monoclonal Rat IgG _{2A} Clone # 349214
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse DCAR/CLEC4B Gln42-Leu209 Accession # AAR13070
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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
Flow Cytometry	0.25-1 µg/10 ⁶ cells	Mouse bone marrow-derived dendritic cells

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Dendritic Cell immuno-Activating Receptor alpha isoform (DCAR) is a type II membrane protein belonging to the C-type lectin domain family and is designated CLEC4B. Two isoforms of DCAR exist, a 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. 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.

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