R&D SYSTEMS
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Mouse CLEC9a Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF6776

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CLEC9a in direct ELISAs. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) CLEC9a, rhCLEC2, and rhCLEC12B is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant mouse CLEC9a Lys57-Ile264 Accession # EDK99924
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 as a 0.2 µm filtered solution in PBS.

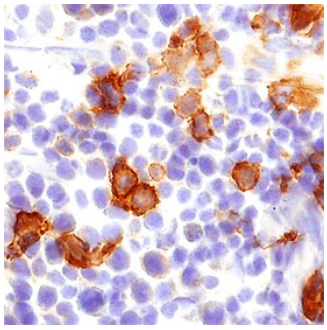
APPLICATIONS

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
Immunohistochemistry	5-15 µg/mL	See Below

DATA

Immunohistochemistry



CLEC9a in Mouse Spleen. CLEC9a was detected in perfusion fixed frozen sections of mouse spleen using Sheep Anti-Mouse CLEC9a Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6776) at 1.7 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). Specific staining was localized to dendritic cells. View our protocol for Chromogenic IHC Staining of Frozen Tissue Sections.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
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.** ● 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

CLEC9a (C-type lectin domain family member A; also DNGR-1) is a 50-52 kDa member of the group V C-type lectin domain containing family of receptors. In mouse, it is an activation receptor expressed on both CD8α+ CD24+ and plasmacytoid dendritic cells (DC). It assists in endocytosis but not phagocytosis, and appears to induce cytotoxic antitumor T cells by participating in class I MHC antigen presentation. CD8α+ DCs are believed to be particularly important for the disposal of dead cell material. Mouse CLEC9a is a 264 amino acid (aa) type II transmembrane glycoprotein. It contains a 35 aa cytoplasmic segment (aa 1-35) and a 208 aa extracellular region (aa 57-264) that possesses one C-type lectin domain (aa 144-256). CLEC9a forms disulfide-linked homodimers on the cell surface. There are multiple splice variants. The CLEC9a SwissProt entry (Q8BRU4) is 238 aa in length and shows a deletion of aa 106-131. Other isoforms contain either a 43 or a 67 aa substitution for aa 106-264, a Val substitution for 31-58, and a combination of the just mentioned Val substitution coupled to a deletion of aa 106-131. Both rat and human CLEC9a appear to be absent aa 106-131 found in full-length mouse CLEC9a. Taking this into account, over aa 57-264, mouse CLEC9a shares 50% and 70% aa identity with human and rat CLEC9a, respectively.

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