

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
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.

Immunohistochemistry Optimal dilution of this antibody should be experimentally determined.

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. 12 months from date of receipt, 2 to 8 °C as supplied

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.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.