Mouse CLEC9a Alexa Fluor® 532-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF6776X
100 µg

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 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 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

Bio-Techne®
Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956
USA | TEL: 800.343.7475 Canada | TEL: 855.668.8722 Europe | Middle East | Africa TEL: +44.0.1235.529449
China | info.cn@bio-techne.com TEL: 400.821.3475