

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CLEC4F/CLECSF13 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human (rh) CLECSF4F, rhCLEC4D, rhCLEC4E, recombinant mouse (rm) OCIL, and rmOCIL-rp2 is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 370901
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse CLEC4F/CLECSF13 Ala65-Gly548 Accession # P70194
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
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

CLEC4F (C-type lectin domain; family 4, member F; also known as the Kupffer cell receptor and fucose receptor) is an 80 kDa, type II transmembrane glycoprotein member of the C-type lectin superfamily (1-3). Mature mouse CLEC4F consists of a 42 amino acid (aa) cytoplasmic domain, a 27 aa transmembrane segment, and a 479 aa extracellular domain (ECD) that contains an extended stalk region plus one carbohydrate recognition domain (4, 5). Within the ECD, mouse CLEC4F shares 48% and 79% aa sequence identity with human and rat CLEC4F, respectively. The stalk region of CLEC4F is a coiled coil domain that mediates homotrimer formation (6, 7). CLEC4F is expressed on Kupffer cells in the liver, but not on macrophages in other tissues (8). CLEC4F preferentially binds galactose and N-acetylgalactosamine in a calcium-dependent manner (6, 9, 10). Its activity at neutral, but not at acidic pH, suggests a capacity to internalize and release ligands into the endosomal system (11).

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