

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 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.

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).

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.