

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CD302/CLEC13A in direct ELISAs and Western blots. In direct ELISAs, approximately 30% cross-reactivity with recombinant human CD302 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse CD302/CLEC13A Asp21-His165 Accession # Q9DCG2
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.

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

CD302 (also DCL-1 and CLEC13A) is a 31-36 kDa member of the C-type lectin domain family of proteins. It is expressed on cells involved in phagocytosis, including neutrophils, monocytes, dendritic cells and macrophages. CD302 is suggested to facilitate phagocytosis, and participate in cell adhesion and migration. Mature mouse CD302 is a 208 amino acid (aa) type I transmembrane glycoprotein. It contains a 146 aa extracellular domain (ECD) (aa 21-165) plus a 42 aa cytoplasmic region. The ECD possesses one C-type lectin domain (aa 30-149) that apparently cannot bind carbohydrate. In human, CD302 has also been detected in dendritic cells as the C-terminal portion of a 215 kDa fusion protein that involves DEC205. CD302 contributes aa 23-232 to this fusion protein. Mouse CD302 has two potential splice variants. One shows an alternative start site at Met61, while another shows a deletion of aa 154-162. Over aa 21-165, mouse CD302 shares 82% and 92% aa identity with human and rat CD302, respectively.

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