

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CD302/CLEC13A in direct ELISAs and Western blots. In direct ELISAs, approximately 50% cross-reactivity with recombinant mouse CD302 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived human CD302/CLEC13A Ala20-Asn167 Accession # Q8IX05
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.

CyTOF-ready	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.
Flow Cytometry	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. Mature human CD302 is a 210 amino acid (aa) type I transmembrane glycoprotein. It contains a 146 aa extracellular domain (ECD) (aa 23-168) plus a 43 aa cytoplasmic region. The ECD possesses a C-type lectin domain (aa 32-152) that apparently cannot bind carbohydrate. 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 the fusion protein. There is one potential alternative start site at Met63. Over aa 23-168, human CD302 shares 82% aa identity with mouse CD302.

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