

# Human CD302/CLEC13A Alexa Fluor® 700-conjugated Antibody

Monoclonal Mouse IgG<sub>1</sub> Clone # 771910

Catalog Number: FAB6367N

100 µg

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                                                                                  |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                                                                            |
| <b>Specificity</b>        | Detects human CD302/CLEC13A in direct ELISAs. In direct ELISAs, less than 10% cross-reactivity with recombinant mouse CD302 is observed.                                                                                                                                                                                         |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>1</sub> Clone # 771910                                                                                                                                                                                                                                                                                 |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                                                                       |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant human CD302/CLEC13A<br>Asp23-Asn167<br>Accession # Q81X05                                                                                                                                                                                                                        |
| <b>Conjugate</b>          | Alexa Fluor 700<br>Excitation Wavelength: 675-700 nm<br>Emission Wavelength: 723 nm                                                                                                                                                                                                                                              |
| <b>Formulation</b>        | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.<br><br>*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.

|                       | <b>Recommended Concentration</b> | <b>Sample</b>                    |
|-----------------------|----------------------------------|----------------------------------|
| <b>Flow Cytometry</b> | 0.25-1 µg/10 <sup>6</sup> cells  | Human peripheral blood monocytes |

## PREPARATION AND STORAGE

|                                |                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.                                     |
| <b>Stability &amp; Storage</b> | <b>Protect from light. Do not freeze.</b><br><ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul> |

## 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.

## PRODUCT SPECIFIC NOTICES

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