

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Mouse                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects mouse BTN2A2/Butyrophilin 2A2 in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 10% cross-reactivity with recombinant mouse (rm) BTN and rmBTN2L2 is observed.                                                                      |
| <b>Source</b>             | Polyclonal Sheep IgG                                                                                                                                                                                                                                                        |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant mouse BTN2A2/Butyrophilin 2A2<br>Gln29-Ser219<br>Accession # A4QPC6.1                                                                                                                                                       |
| <b>Conjugate</b>          | Alexa Fluor 750<br>Excitation Wavelength: 749 nm<br>Emission Wavelength: 775 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<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.

**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

Mouse Butyrophilin 2 (BTN2; also Btn2a2) is a 65-70 kDa member of the BTN/MOG family of proteins. It is expressed on colonic epithelium and endothelial cells, and marginally on monocytes. The counterreceptor for BTN2 is DC-SIGN and binding is predicated on the presence of BTN2 mannose residues. Mature mouse BTN2 is presumably 487 amino acids (aa) in length. It is a type I transmembrane glycoprotein that potentially contains a 206 aa extracellular domain (ECD) (aa 29-234). The ECD contains one V-type (aa 52-129) and one C2-type (aa 152-234) Ig-like domain. There is one alternative splice variant. It shows a deletion of aa 372-400 plus a 17 aa substitution for aa 422-451. Over aa 30-248, mouse BTN2 shares 70% and 89% aa identity with human and rat BTN2, respectively.

#### PRODUCT SPECIFIC NOTICES

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