

DESCRIPTION

Species Reactivity	Mouse
Specificity	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 rmBTN2 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse BTN2A2/Butyrophilin 2A2 Gln29-Ser219 Accession # A4QPC6.1
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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

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.

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