

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse BTNL2/Butyrophilin-like 2 in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 1% cross-reactivity with recombinant mouse (rm) BTN, rmBTN2, and recombinant human BTN is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse BTNL2/Butyrophilin-like 2 aa 27-452 Accession # O70355
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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

Butyrophilin-like 2 (BTNL2; also BTL-II) is a predicted 60-65 kDa member of the BTN/MOG family, Ig-superfamily of proteins. In mouse, it is expressed in intestinal villi columnar epithelial cells and colonic dendritic cells. BTNL2 apparently blocks CD4+ T cell activation. Mouse BTNL2 is a 454 amino acid (aa) type II transmembrane glycoprotein. It contains a 431 aa extracellular region (aa 24-454) with four V-type Ig-like domains. There are three splice variants. One shows a deletion of the two C-terminal amino acids, a second shows a deletion of aa 237-243, while a third shows a C-terminal 62 substitution for Gly453Trp454. Over aa 27-452, mouse BTNL2 shares 88% and 64% aa identity with rat and human BTNL2, respectively.

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