

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse BTN1A1/Butyrophilin in direct ELISAs and Western blots. In direct ELISAs, approximately 25% cross-reactivity with recombinant human BTN1A1/Butyrophilin is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse BTN1A1/Butyrophilin Ala27-Trp247 Accession # Q62556
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 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 (Greek for "being like butter"; also Btn1a1) is a 66 kDa member of the BTN/MOG family of proteins. It is expressed on secretory mammary epithelium and associates with xanthine dehydrogenase. This is necessary for milk-lipid droplet secretion. Mature mouse Butyrophilin is 498 amino acids (aa) in length. It is a type I transmembrane glycoprotein that contains a 221 aa extracellular domain (ECD) (aa 27-247) and a 256 aa cytoplasmic region. The ECD contains two V-type Ig-like domains (aa 29-141 and aa 149-235). There are two potential splice variants. One shows a deletion of aa 145-238, while a second shows a 36 aa substitution for aa 144-524. Over aa 27-247, mouse Butyrophilin shares 85% and 67% aa identity with rat and human Butyrophilin, respectively.

PRODUCT SPECIFIC NOTICES

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