

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human BTN3A1, BTN3A2 and BTN3A3 in direct ELISAs.
Source	Recombinant Monoclonal Mouse IgG ₁ Clone # 849203
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human CD277/BTN3A1 Met1-Gly254 Accession # O00481
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and 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.

	Recommended Concentration	Sample
Flow Cytometry	0.25-1 µg/10 ⁶ cells	Human peripheral blood lymphocytes

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. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Butyrophilin 3A1 (BTN3A1), also known as CD277, has high structural homology to the B7 superfamily of proteins and is expressed in various immune cells such as T and NK cells. BTN3A1 enhances TCR-induced cytokine production and cell proliferation. Early T-cell activation events such as TCR-induced cell signaling are increased upon BTN3A1 engagement. The BTN3A1 co-stimulatory pathway may be involved in the regulation of various cell-mediated immune responses.

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