

Anti-CD277 [108.5] Bulk Size Ab03874-23.0-BT

Isotype and Format: Rabbit IgG, Kappa

Clone Number: 108.5

Alternative Name(s) of Target: BTN3A1; BTF5; BT3; BT3.1; Butyrophilin subfamily 3 member A1

UniProt Accession Number of Target Protein: O00481

Published Application(s): antagonist, functional assay

Published Species Reactivity: Human

Immunogen: The original antibody was generated by immunizing BALB/c mice with soluble BT3.1-Ig fusion protein.

Specificity: This antibody binds human CD277 (BTNA3A1). This protein plays an important role in T-cell activation and in the adaptive immune response. It regulates proliferation of activated T-cells and release of IFNG by activated T-cells. It is expressed on surface of T-cells, natural killer cells, dendritic cells and macrophages (at protein level). It is highly expressed in heart, pancreas and lung and moderately expressed in placenta, liver and muscle.

Application Notes: This antibody was used as an antagonist antibody to check if BTN3A can specifically enhance Vg9Vd2 TCR-mediated lysis of primary AML blasts using cytotoxic assays. This antibody was reported to significantly and drastically abrogate zoledronate (ZOL)-induced lysis (PMID: 27853633). This antibody can completely abrogate Vγ9Vδ2 T cell mediated lysis of tumors (PMID: 29296524).

Antibody First Published in: Compte et al. Frontline: Characterization of BT3 molecules belonging to the B7 family expressed on immune cells. Eur J Immunol. 2004 Aug;34(8):2089-99. [PMID:15259006](#)

Note on publication: This paper describes the characterization of BTN3A1 molecule expressed on immune cells using antibodies.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic

procedures for humans or animals.