Anti-BTNL3 Antibody HA500238



Product Type: Species reactivity: Applications: Molecular Wt:	Rabbit polyclonal IgG, primary antibodies Human WB Predicted band size: 52 kDa.
Description:	Butyrophilin-like 3 (BTNL3) is a member of the BTN/MOG Ig-superfamily which is coded by the BTNL3 gene, also known as COLF4100. BTNL3 is a 466 amino acid (aa) type I transmembrane protein that contains a 220 aa extracellular domain (ECD), a 21 aa helical transmembrane domain, and a 208 aa cytoplasmic domain. The ECD features both an IgV and IgC domain, which is commonplace in BTN/BTNL proteins, but the IgC domain is relatively weak. The ECD of human BTNL3 shares only 37% and 34% aa sequence identity with mouse (referred to as BTNL1) and rat, respectively. Human BTNL3 mRNA has been identified in many tissues including small intestine, colon, liver, lung, bone marrow and spleen tissue, and it is highly expressed in neutrophils. BTNL3 expression has also been found to be down-regulated in colon cancer tumors. The specific function of BTNL3, however, has yet to be fully elucidated. R&D in house data indicate that BTNL3 protein inhibits the secretion of IFN-gamma from anti-CD3 activated human T cells.
lmmunogen:	Synthetic peptide within human BTNL3 aa 440-450.
Positive control:	HL-60 cell lysate, human small intestine tissue lysate.
Subcellular location:	Membrane
Database links:	SwissProt: Q6UXE8 Human
Recommended Dilutions: WB	1:500
Storage Buffer:	1*TBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.
Storage Instruction:	Shipped at 4 $^\circ\!\mathrm{C}$. Store at +4 $^\circ\!\mathrm{C}$ short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20 $^\circ\!\mathrm{C}$ long term.
Purity:	Immunogen affinity purified.

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Orders:0086-571-88062880

Technical:0086-571-89986345

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images



Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

- 1. Jandke A. et. al. Butyrophilin-like proteins display combinatorial diversity in selecting and maintaining signature intraepithelial gammadelta T cell compartments. Nat Commun. 2020 Jul
- Willcox CR. et. al. Butyrophilin-like 3 Directly Binds a Human Vgamma4(+) T Cell Receptor Using a Modality Distinct from Clonally-Restricted Antigen. Immunity. 2019 Nov

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