BTN3A3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	BTN3A3, Polyclonal Antibody
Full Product Name	BTN3A3, NT (BTN3A3, BTF3, Butyrophilin subfamily 3 member A3) (MaxLight 405)
Product Gene Name	anti-BTN3A3 antibody
Product Synonym Names	BTN3A3; BTF3; Butyrophilin subfamily 3 member A3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	613595
3D Structure	ModBase 3D Structure for O00478
Immunogen	BTN3A3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 66-96 amino acids from the N-terminal region of human BTN3A3.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-BTN3A3 antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-BTN3A3 antibody	Western Blot (WB), FLISA
Application Notes for anti-BTN3A3 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-BTN3A3 antibody	MaxLight405 is a new Violet photostable dye conjugate comparable to Alexa Fluor 405, PacificBlue, Brilliant Violet 421 and offers better labeling efficiency, brighter imaging and increased immunodetection. Absorbance (400nm); Emission (423nm); Extinction Coefficient 32,000.
Product References and Citations for anti-BTN3A3 antibody	Smith, I.A., et al. J. Immunol. 184(7):3514-3525(2010). Zhang, Z., et al. Protein Sci. 13(10):2819-2824(2004). Rhodes, D.A., et al. Genomics 71(3):351-362(2001). Henry, J., et al. Immunol. Today 20(6):285-288(1999). Ruddy, D.A., et al. Genome Res. 7(5):441-456(1997).
Other Notes	Small volumes of anti-BTN3A3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for BTN3A3 purchase	MBS6279280 is an antibody targeting BTN3A3. Also known as BTN3A3, NT (BTN3A3, BTF3, Butyrophilin subfamily 3 member A3) (MaxLight 405). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BTN3A3. It may not necessarily be applicable to this product.

NCBI GI #	261490684
NCBI GeneID	10384
NCBI Accession #	NP_932078.2
UniProt Primary Accession #	O00478
UniProt Related Accession #	O00478
GenBank Nucleotide #	NP_932078.2
NCBI Official Full Name	butyrophilin subfamily 3 member A3 isoform b
NCBI Official Synonym Full Names	butyrophilin subfamily 3 member A3
NCBI Official Symbol	BTN3A3
NCBI Official Synonym Symbols	BTF3; BTN3.3
UniProt Protein Name	Butyrophilin subfamily 3 member A3
Protein Family	Butyrophilin subfamily
UniProt Gene Name	BTN3A3
UniProt Synonym Gene Names	BTF3
UniProt Entry Name	BT3A3_HUMAN
NCBI Protein Information	butyrophilin subfamily 3 member A3
NCBI Summary for BTN3A3	The butyrophilin (BTN) genes are a group of major histocompatibility complex (MHC)-associated genes that encode type I membrane proteins with 2 extracellular immunoglobulin (Ig) domains and an intracellular B30.2 (PRYSPRY) domain. Three subfamilies of human BTN genes are located in the MHC class I region: the single-copy BTN1A1 gene (MIM 601610) and the BTN2 (e.g., BTN2A1; MIM 613590) and BTN3 (e.g., BNT3A3) genes, which have undergone tandem duplication, resulting in 3 copies of each (summary by Smith et al., 2010 [PubMed 20208008]).[supplied by OMIM, Nov 2010]
UniProt Comments for BTN3A3	Function: Plays a role in T-cell responses in the adaptive immune response. Ref.10 Subunit structure: Homodimer. Ref.11 Subcellular location: Cell membrane; Single-pass type I membrane protein Ref.9 Ref.10. Tissue specificity: Detected in peripheral blood mononuclear cells and in T-cells (at protein level). Detected in spleen and lymphocytes. Ref.8 Post-translational modification: N-glycosylated. Ref.8 Sequence similarities: Belongs to the immunoglobulin superfamily. BTN/MOG family.Contains 1 B30.2/SPRY domain.Contains 2 Ig-like V-type (immunoglobulin-like) domains.
Research Articles on BTN3A3	**1.** This study identified that CGPs was found to significantly correlate with the differential expression and methylation of genes encoding butyrophilin, subfamily 3, member A3.
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