# BTN3A3 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | BTN3A3, Polyclonal Antibody |
| **Full Product Name** | Anti-BTN3A3 Antibody, Rabbit Polyclonal |
| **Product Gene Name** | anti-BTN3A3 antibody |
| **Product Synonym Names** | BTN3A3 Antibody, Rabbit PAb, Antigen Affinity Purified; butyrophilin subfamily 3 member A3; Anti-BTF3 Antibody; Anti-BTN3.3 Antibody; Anti-BTN3A3 Antibody |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Liquid; 0.2um filtered solution in PBS |
| **Purity/Purification** | Protein A & Antigen Affinity |
| **Specificity** | Human BTN3A3 |
| **Preparation and Storage** | This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles. |
| **Molecular Weight** | 65,002 Da |
| **Chromosome Location** | Chromosome: 6; NC_000006.11 (26440700..26453643). Location: 6p21.3 |
| **OMIM** | 613595 |
| **3D Structure** | ModBase 3D Structure for O00478 |
| **Immunogen** | Recombinant Human BTN3A3 Protein |
| **Conjugation** | Unconjugated |
| **Preparation** | Produced in rabbits immunized with purified, recombinant Human BTN3A3 (rh BTN3A3). BTN3A3 specific IgG was purified by Human BTN3A3 affinity chromatography. |
| **Applications Tested/Suitable for anti-BTN3A3 antibody** | ELISA (EIA) |
| **Application Notes for anti-BTN3A3 antibody** | ELISA: 1:5000-1:10,000 |
| **Related Product Information for anti-BTN3A3 antibody** | The three butyrophilin BTN3A molecules, BTN3A1, BTN3A2, and BTN3A3, are members of the B7/butyrophilin-like group of Ig superfamily receptors, which modulate the function of T cells. The butyrophilin 3 (BTN3) receptors are implicated in the T lymphocytes regulation and present a wide plasticity in mammals. A thorough phylogenetic analysis reveals a concerted evolution of BTN3 characterized by a strong and recurrent homogenization of the region encoding the signal peptide and the immunoglobulin variable (IgV) domain in Hominoids, where the sequences of BTN3A1 or BTN3A3 are replaced by BTN3A2 sequence. |
| **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. |

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| **Searchable Terms for BTN3A3 purchase** | MBS8106939 is an antibody targeting BTN3A3. Also known as Anti-BTN3A3 Antibody, Rabbit Polyclonal. 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.

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| **NCBI GI #** | 338797729 |
| **NCBI GeneID** | 10384 |
| **NCBI Accession #** | NP_001229732.1 |
| **UniProt Primary Accession #** | O00478 |
| **UniProt Secondary Accession #** | B4DWI7; E9PCP5 |
| **UniProt Related Accession #** | O00478 |
| **GenBank Nucleotide #** | NM_001242803.1 |
| **NCBI Official Full Name** | butyrophilin subfamily 3 member A3 isoform c |
| **NCBI Official Synonym Full Names** | butyrophilin, subfamily 3, member A3 |
| **NCBI Official Symbol** | BTN3A3 |
| **NCBI Official Synonym Symbols** | BTF3 |
| **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; butyrophilin 3 |
| **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<br><br>Subunit structure: Homodimer. Ref.11<br><br>Subcellular location: Cell membrane; Single-pass type I membrane protein Ref.9 Ref.10.<br><br>Tissue specificity: Detected in peripheral blood mononuclear cells and in T-cells (at protein level). Detected in spleen and lymphocytes. Ref.8<br><br>Post-translational modification: N-glycosylated. Ref.8<br><br>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. |
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