

# BTN3A1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP13499b

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">O00481</a>
<b>Other Accession</b>	<a href="#">NP_001138481.1</a> , <a href="#">NP_919423.1</a> , <a href="#">NP_001138480.1</a> , <a href="#">NP_008979.3</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB33424
<b>Calculated MW</b>	57677
<b>Antigen Region</b>	345-374

## Additional Information

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<b>Gene ID</b>	11119
<b>Other Names</b>	Butyrophilin subfamily 3 member A1, CD277, BTN3A1, BTF5
<b>Target/Specificity</b>	This BTN3A1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 345-374 amino acids from the C-terminal region of human BTN3A1.
<b>Dilution</b>	WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	BTN3A1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	BTN3A1
<b>Synonyms</b>	BTF5
<b>Function</b>	Plays a role in T-cell activation and in the adaptive immune response. Regulates the proliferation of activated T-cells. Regulates the release of

cytokines and IFNG by activated T-cells. Mediates the response of T-cells toward infected and transformed cells that are characterized by high levels of phosphorylated metabolites, such as isopentenyl pyrophosphate.

**Cellular Location**

Cell membrane; Single-pass type I membrane protein

**Tissue Location**

Detected on T-cells, natural killer cells, dendritic cells and macrophages (at protein level). Ubiquitous. Highly expressed in heart, pancreas and lung, Moderately expressed in placenta, liver and muscle.

## Background

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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., BNT3A1) genes, which have undergone tandem duplication, resulting in 3 copies of each (summary by Smith et al., 2010 [PubMed 20208008]).[supplied by OMIM].

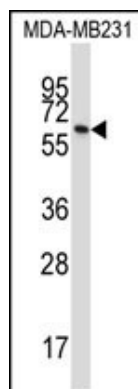
## References

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Smith, I.A., et al. J. Immunol. 184(7):3514-3525(2010)  
Shi, J., et al. Nature 460(7256):753-757(2009)  
Wang, A.G., et al. Biochem. Biophys. Res. Commun. 345(3):1022-1032(2006)  
Mungall, A.J., et al. Nature 425(6960):805-811(2003)  
Rhodes, D.A., et al. Genomics 71(3):351-362(2001)

## Images

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BTN3A1 Antibody (C-term) (Cat. #AP13499b) western blot analysis in MDA-MB231 cell line lysates (35ug/lane). This demonstrates the BTN3A1 antibody detected the BTN3A1 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.