

For Research Use Only

# BTN3A1 Polyclonal antibody

Catalog Number: 25221-1-AP

Featured Product

4 Publications



## Basic Information

**Catalog Number:**

25221-1-AP

**Size:**

500 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG18414

**GenBank Accession Number:**

BC121800

**GeneID (NCBI):**

11119

**UNIPROT ID:**

O00481

**Full Name:**

butyrophilin, subfamily 3, member A1

**Calculated MW:**

513 aa, 58 kDa

**Observed MW:**

48 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:1000

## Applications

**Tested Applications:**

WB, ELISA

**Cited Applications:**

WB, IHC

**Species Specificity:**

human

**Cited Species:**

human

**Positive Controls:**

WB: U-937 cells, Jurkat cells

## Background Information

BTN3A1, also named as Butyrophilin subfamily 3 member A1 or BTF5, is a 513 amino acid protein, which contains one B30.2/SPRY domain and two Ig-like V-type (immunoglobulin-like) domains. BTN3A1 localizes in the cell membrane and belongs to the immunoglobulin superfamily. BTN/MOG family. BTN3A1 is detected on T-cells, natural killer cells, dendritic cells and macrophages. It is ubiquitously highly expressed in heart, pancreas and lung and moderately expressed in placenta, liver and muscle. BTN3A1 plays a role in T-cell activation and in the adaptive immune response. It also regulates the proliferation of activated T-cells and the release of cytokines and IFNG by activated T-cells. It exists as four isoforms. We detected a 48 kDa isoform by western blot.

## Notable Publications

Author	Pubmed ID	Journal	Application
Jinguo Zhang	33042828	Front Oncol	IHC
Barbara Castella	28580927	Nat Commun	WB
Fan Liang	34293829	FEBS Open Bio	WB, IHC

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

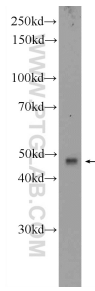
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



U-937 cells were subjected to SDS PAGE followed by western blot with 25221-1-AP (BTN3A1 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.