

For Research Use Only

BTN3A1 Polyclonal antibody

Catalog Number: 25221-1-AP

Featured Product

4 Publications



Basic Information

Catalog Number:

25221-1-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop and 300 ug/ml by Bradford method using BSA as the standard;

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

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IF/ICC, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human

Cited Species:

human

Positive Controls:

WB : U-937 cells, Jurkat cells

IF/ICC : U-251 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

*** 20ul sizes contain 0.1% BSA

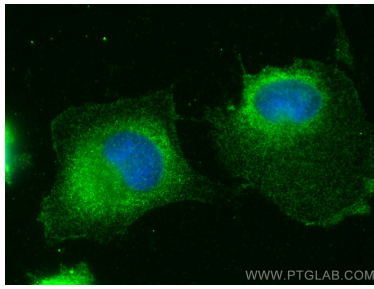
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

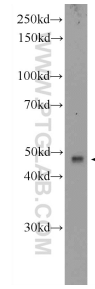
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed U-251 cells using BTN3A1 antibody (25221-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



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.