Name:BTN1A1 mouse monoclonal antibody, clone OTI7B5 (formerly 7B5) **Product Data Sheet - TRUEMAB**	**Catalog: TA501529**

Components:
- BTN1A1 mouse monoclonal antibody, clone OTI7B5 (formerly 7B5) (TA501529)

Amount: 100ul

Immunogen: Full length human recombinant protein of human BTN1A1 (NP_001723) produced in HEK293T cell.

Host: Mouse

Isotype: IgG2a

Species Reactivity: Human , Dog

Guaranteed Applications: WB, IHC, IF, FC

Suggested Dilutions: WB 1:200~500, IHC 1:150, IF 1:100, FLOW 1:100

Concentration: 0.58 mg/ml

Buffer: PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.

Purification: Purified from mouse ascites fluids by affinity chromatography

Storage Condition: Shipped at -20C or with ice packs. Upon delivery store at -20C. Dilute in PBS (pH7.3) if necessary. Stable for 12 months from date of receipt. Avoid repeated freeze-thaws.

Target

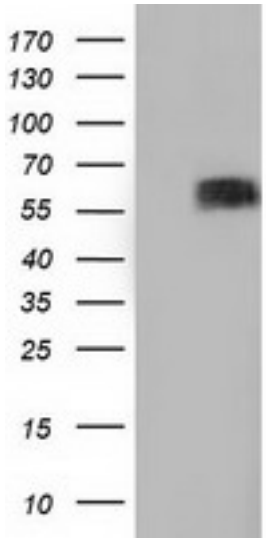
Target Name: Homo sapiens butyrophilin subfamily 1 member A1 (BTN1A1)

Alternative Name: BT; BTN; BTN1

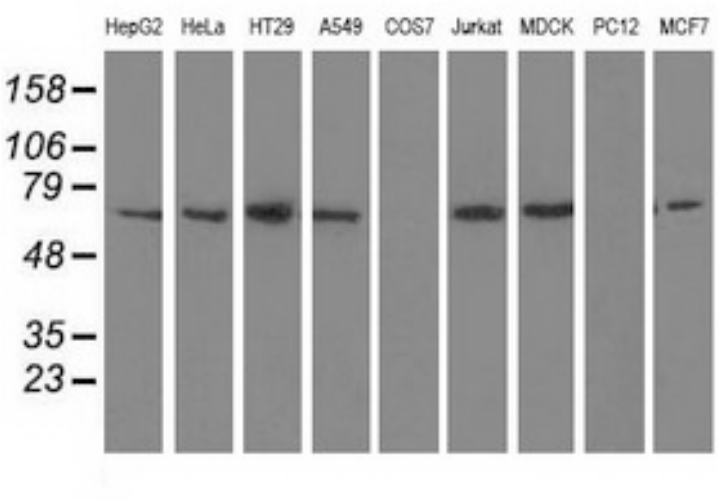
Database Link: NP_001723
Entrez Gene 696 Human
Entrez Gene 100855656 Dog

Function: Butyrophilin is the major protein associated with fat droplets in the milk. It is a member of the immunoglobulin superfamily. It may have a cell surface receptor function. The human butyrophilin gene is localized in the major histocompatibility complex (MHC) class I region of 6p and may have arisen relatively recently in evolution by the shuffling of exons between 2 ancestral gene families [provided by RefSeq].

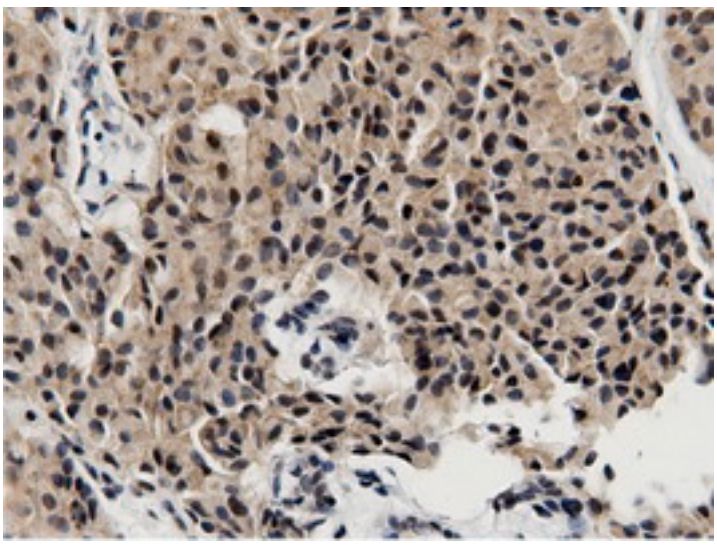
Validation Data



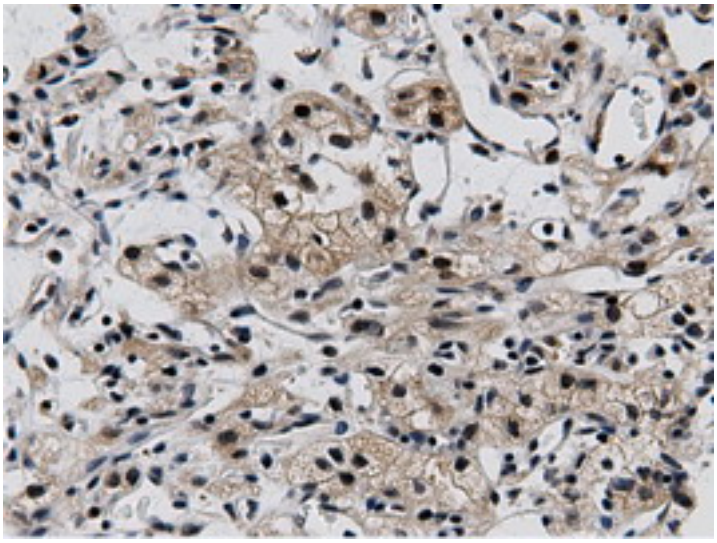
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY BTN1A1 (RC223852, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-BTN1A1.



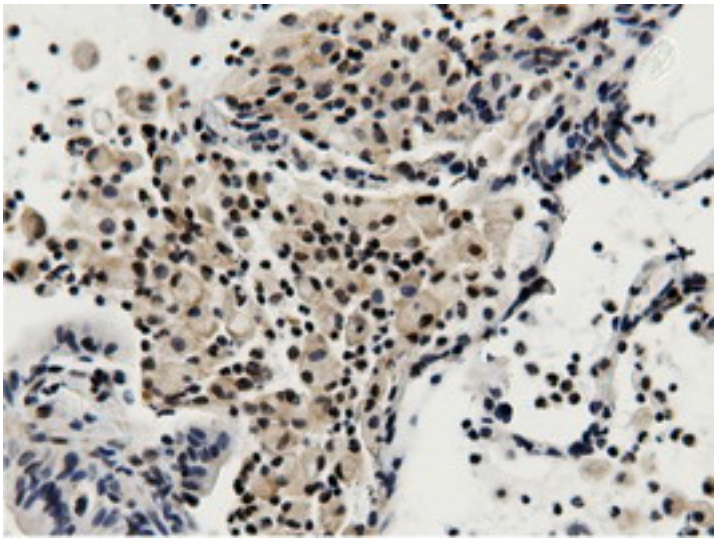
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-BTN1A1 monoclonal antibody.



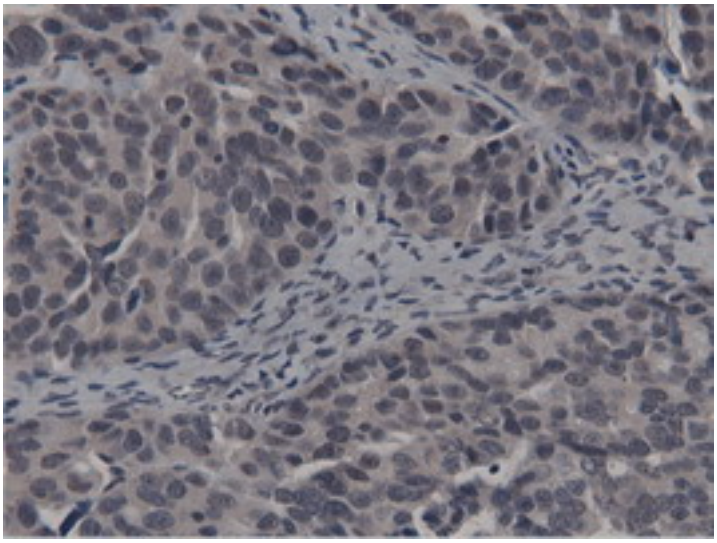
Immunohistochemical staining of paraffin-embedded Human colon tissue within the normal limits using anti-BTN1A1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100C for 10min, TA501529)



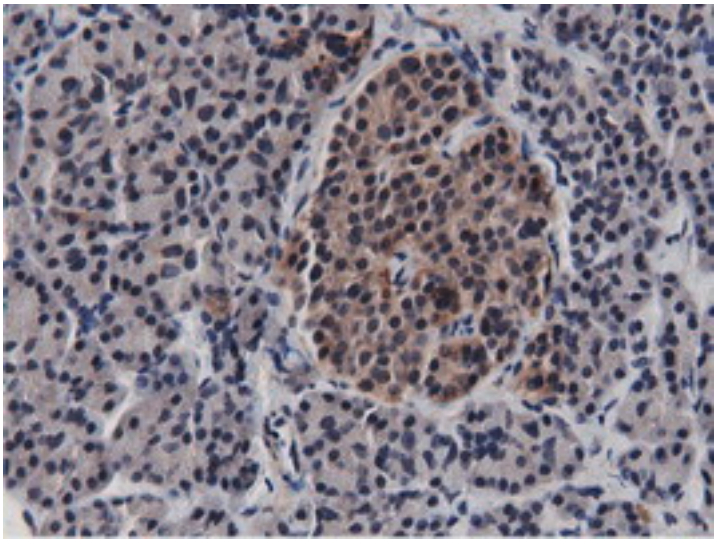
Immunohistochemical staining of paraffin-embedded Carcinoma of Human kidney tissue using anti-BTN1A1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100C for 10min, TA501529)



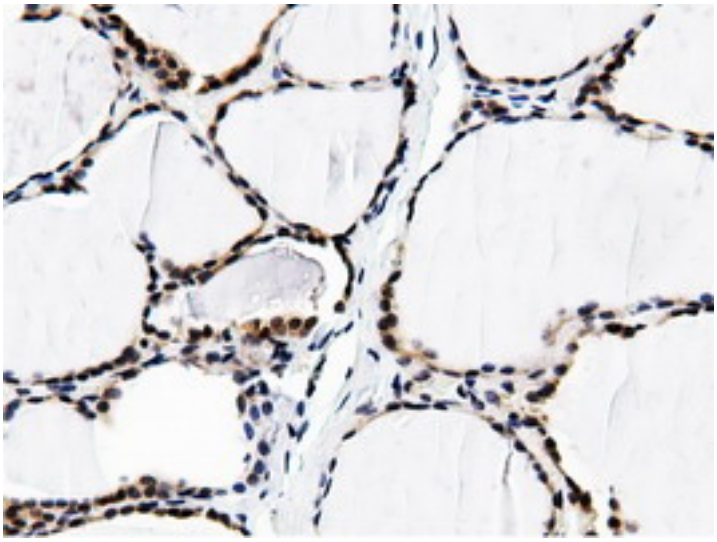
Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-BTN1A1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100C for 10min, TA501529)



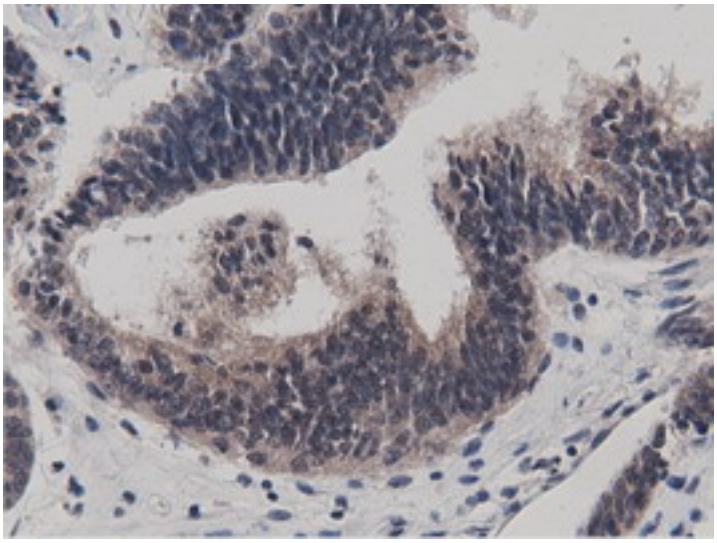
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-BTN1A1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100C for 10min, TA501529)



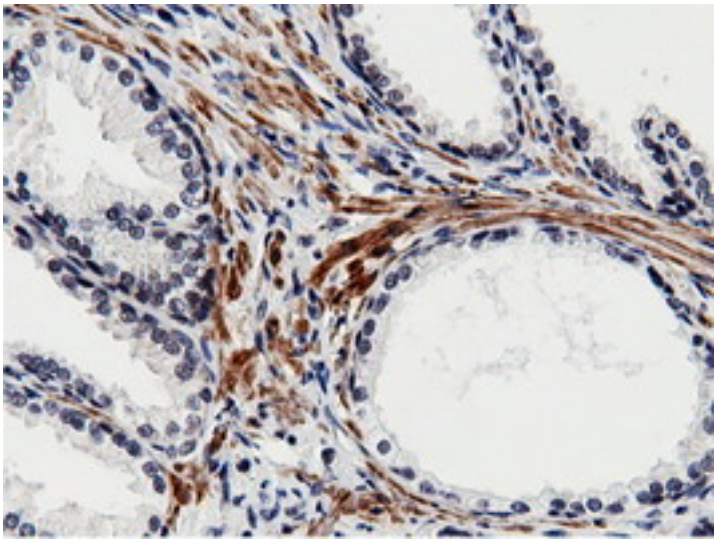
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-BTN1A1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100C for 10min, TA501529)



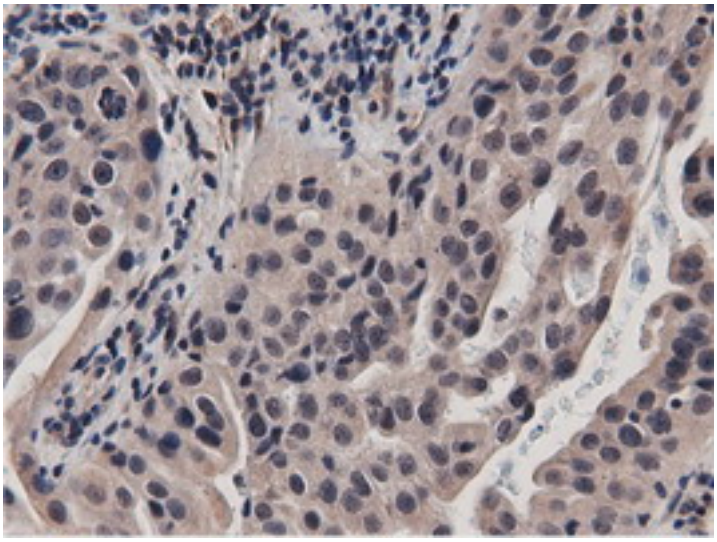
Immunohistochemical staining of paraffin-embedded Human thyroid tissue within the normal limits using anti-BTN1A1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100C for 10min, TA501529)



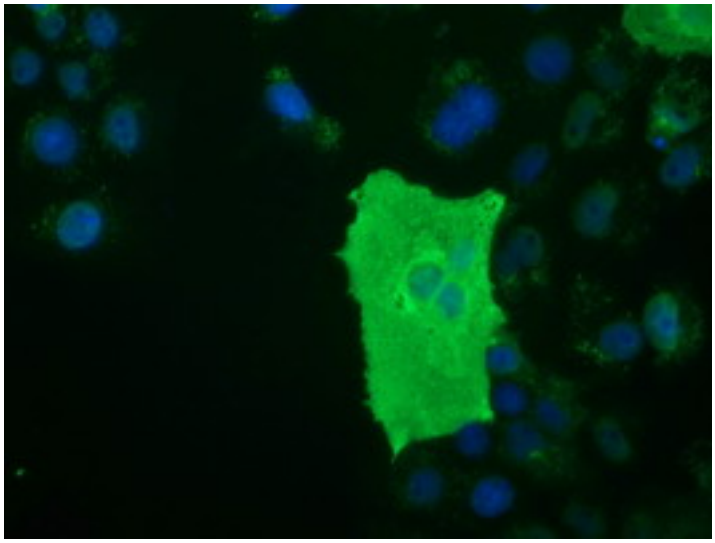
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-BTN1A1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100C for 10min, TA501529)



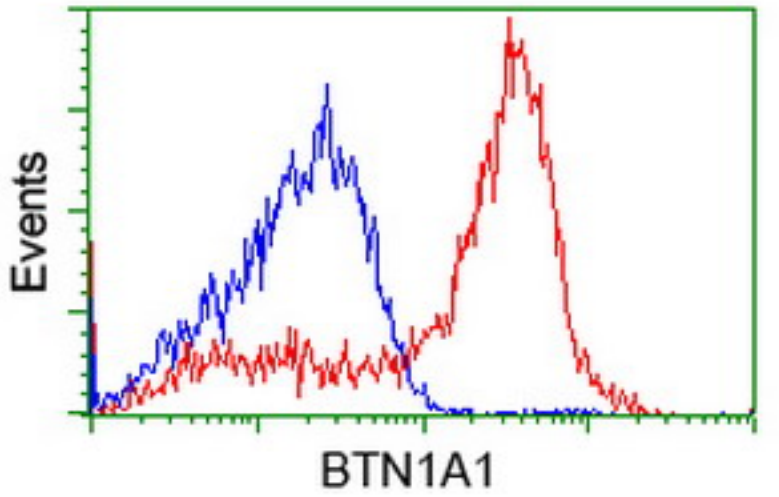
Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-BTN1A1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100C for 10min, TA501529)



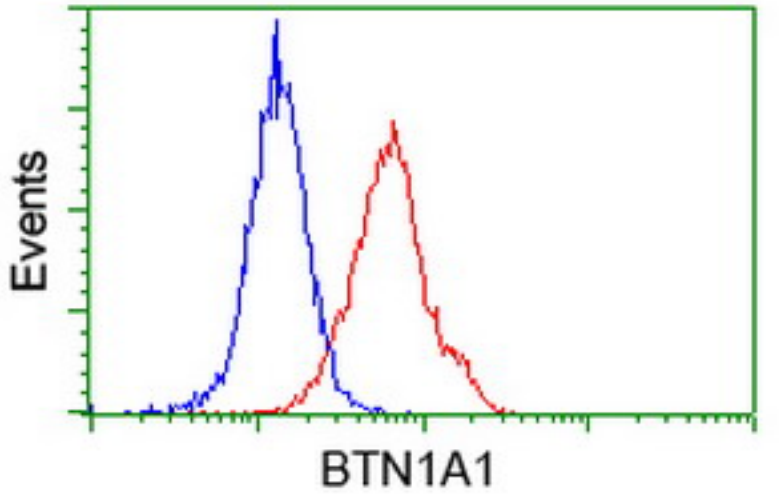
Immunohistochemical staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-BTN1A1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100C for 10min, TA501529)



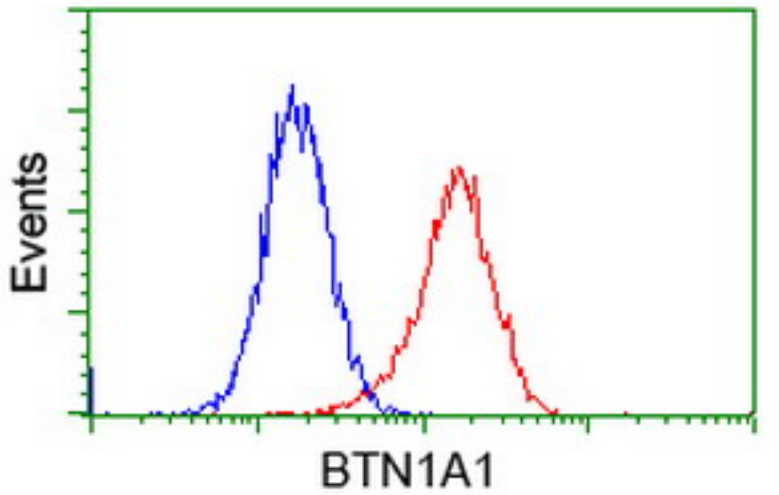
Anti-BTN1A1 mouse monoclonal antibody (TA501529) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY BTN1A1(RC223852).



HEK293T cells transfected with either RC223852 overexpress plasmid(Red) or empty vector control plasmid(Blue) were immunostained by anti-BTN1A1 antibody(TA501529), and then analyzed by flow cytometry.



Flow cytometric Analysis of Hela cells, using anti-BTN1A1 antibody(TA501529),(Red), compared to a nonspecific negative control antibody(TA50011),(Blue).



Flow cytometric Analysis of Jurkat cells, using anti-BTN1A1 antibody(TA501529),(Red), compared to a nonspecific negative control antibody(TA50011),(Blue).

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