

For Research Use Only

TTC7A Polyclonal antibody

Catalog Number: 21600-1-AP **3 Publications**



Basic Information

Catalog Number: 21600-1-AP	GenBank Accession Number: BC114365	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 350 µg/ml by Nanodrop and 233 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 57217	Recommended Dilutions: WB 1:200-1:1000 IP 0.5-4.0 ug for IP and 1:200-1:1000 for WB
Source: Rabbit	Full Name: tetra-tryptophan repeat domain 7A	Calculated MW: 858 aa, 96 kDa
Isotype: IgG	Observed MW: 96 kDa	Immunogen Catalog Number: AG16212

Applications

Tested Applications: IHC, IP, WB, ELISA	Positive Controls: WB: K-562 cells, PC-3 cells, mouse small intestine tissue, mouse colon tissue
Cited Applications: IF, IHC, WB	IP: K-562 cells,
Species Specificity: human, mouse	IHC: human colon tissue,
Cited Species: human	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

TTC7A (TPR repeat protein 7A) is expressed in enterocytes within the duodenum, ileum, and colon, and has a role in enterocyte survival and function. Mutations in the TTC7A gene can result in a spectrum of intestinal disease, including multiple intestinal atresia (MIA) and very early onset inflammatory bowel diseases (VEOIBD). Functional analysis revealed that TTC7A binds to and facilitates the transport of PI4KIIIa from the trans-Golgi to the plasma membrane, while loss of TTC7A results in dysregulation of PI4KIIIa signaling. This antibody specially recognizes endogenous TTC7A. (24417819)

Notable Publications

Author	Pubmed ID	Journal	Application
Wenjun Mou	34975848	Front Immunol	WB, IHC
Dylan Lawless	28808844	J Clin Immunol	IHC
Yaron Avitzur	24417819	Gastroenterology	IHC, IF

Storage

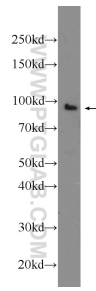
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

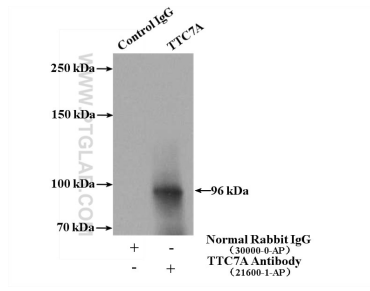
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

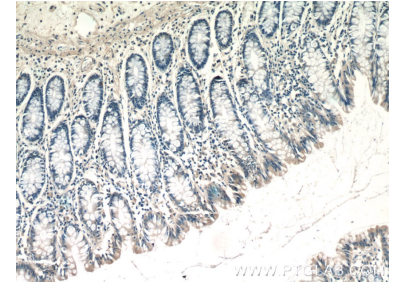
Selected Validation Data



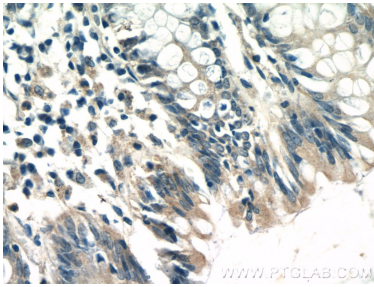
K-562 cells were subjected to SDS PAGE followed by western blot with 21600-1-AP (TTC7A Antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



IP Result of anti-TTC7A (IP:21600-1-AP, 4ug; Detection:21600-1-AP 1:300) with K-562 cells lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 21600-1-AP (TTC7A Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 21600-1-AP (TTC7A Antibody) at dilution of 1:50 (under 40x lens).