

For Research Use Only

TTC7A Polyclonal antibody

Catalog Number: 21600-1-AP

3 Publications



Basic Information

Catalog Number:

21600-1-AP

Size:

150ul, Concentration: 250 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG16212

GenBank Accession Number:

BC114365

GeneID (NCBI):

57217

UNIPROT ID:

Q9ULT0

Full Name:

tetratricopeptide repeat domain 7A

Calculated MW:

858 aa, 96 kDa

Observed MW:

96 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:3000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse

Cited Species:

human

Positive Controls:

WB : SW480 cells, K-562 cells, mouse colon tissue, mouse small intestine tissue, PC-3 cells, mouse thymus tissue

IP : K-562 cells,

IHC : mouse small intestine tissue,

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

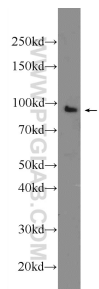
For technical support and original validation data for this product please contact:

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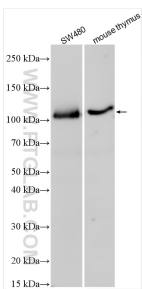
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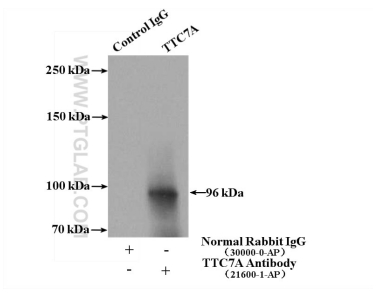
Selected Validation Data



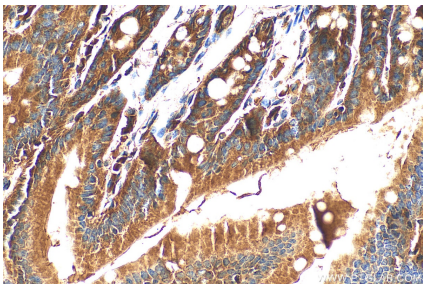
K-562 cells were subjected to SDS PAGE followed by western blot with 21600-1-AP (TTC7A Antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 21600-1-AP (TTC7A antibody) at dilution of 1:1500 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 mouse small intestine tissue slide using 21600-1-AP (TTC7A antibody) at dilution of 1:100 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).