

For Research Use Only

# TTC7A Polyclonal antibody

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



## Basic Information

<b>Catalog Number:</b> 21600-1-AP	<b>GenBank Accession Number:</b> BC114365	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 350 µg/ml	<b>GeneID (NCBI):</b> 57217	<b>Recommended Dilutions:</b> WB 1:200-1:1000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9ULT0	IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate
<b>Isotype:</b> IgG	<b>Full Name:</b> tetra(tryptophan) repeat domain 7A	IHC 1:50-1:500
<b>Immunogen Catalog Number:</b> AG16212	<b>Calculated MW:</b> 858 aa, 96 kDa	
	<b>Observed MW:</b> 96 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IP, ELISA	<b>Positive Controls:</b> WB : K-562 cells, PC-3 cells, mouse small intestine tissue, mouse colon tissue
<b>Cited Applications:</b> WB, IHC, IF	IP : K-562 cells,
<b>Species Specificity:</b> human, mouse	IHC : mouse small intestine tissue,
<b>Cited Species:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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 specifically 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

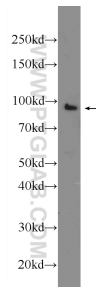
## Storage

**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

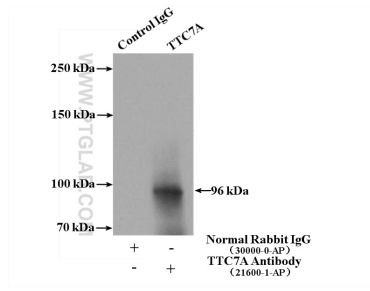
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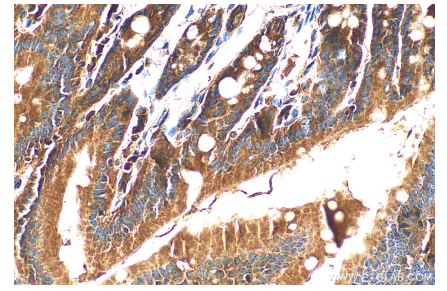
## Selected Validation Data



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.



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).