

For Research Use Only

# YTHDC2 Polyclonal antibody

Catalog Number: 27779-1-AP

Featured Product

20 Publications



## Basic Information

<b>Catalog Number:</b> 27779-1-AP	<b>GenBank Accession Number:</b> BC137285	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 800 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 64848	<b>Recommended Dilutions:</b> WB 1:1000-1:8000 IHC 1:1000-1:4000 IF 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> YTH domain containing 2	
<b>Isotype:</b> IgG	<b>Observed MW:</b> 160 kDa	
<b>Immunogen Catalog Number:</b> AG26690		

## Applications

<b>Tested Applications:</b> FC, IF, IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> CoIP, IF, IP, RIP, WB	<b>WB:</b> HepG2 cells, HeLa cells, MCF-7 cells, MDA-MB-231 cells
<b>Species Specificity:</b> Human, mouse, rat	<b>IHC:</b> rat testis tissue,
<b>Cited Species:</b> human, rat, mouse, pig	<b>IF:</b> HepG2 cells,

**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

YTHDC2, also named as Probable ATP-dependent RNA helicase YTHDC2, is a 1430 amino acid protein, which belongs to the DEAD box helicase family. YTHDC2 specifically recognizes and binds N6-methyladenosine (m6A)-containing RNAs. M6A is a modification present at internal sites of mRNAs and some non-coding RNAs and plays a role in the efficiency of mRNA splicing, processing and stability.

## Notable Publications

Author	Pubmed ID	Journal	Application
Kusuma Suphakhong	36183833	J Biol Chem	WB
Hao Sheng	31504235	Carcinogenesis	WB
Lingfang Wang	36288717	Cell Rep	WB

## Storage

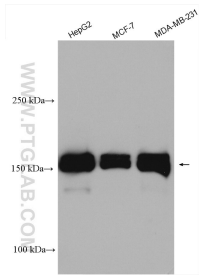
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

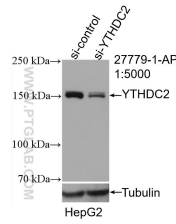
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

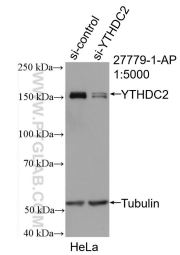
## Selected Validation Data



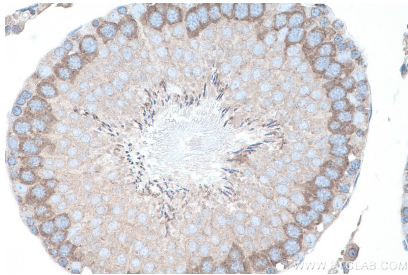
Various lysates were subjected to SDS PAGE followed by western blot with 27779-1-AP (YTHDC2 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



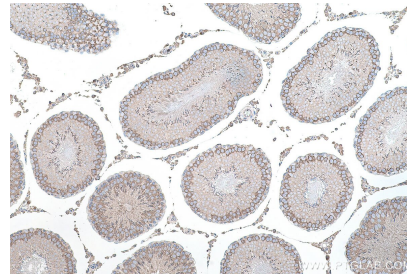
WB result of YTHDC2 antibody (27779-1-AP; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-YTHDC2 transfected HepG2 cells.



WB result of YTHDC2 antibody (27779-1-AP; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-YTHDC2 transfected HeLa cells.



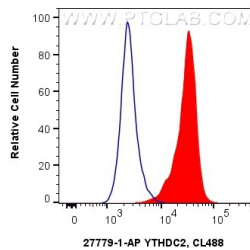
Immunohistochemical analysis of paraffin-embedded rat testis tissue slide using 27779-1-AP (YTHDC2 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat testis tissue slide using 27779-1-AP (YTHDC2 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using YTHDC2 antibody (27779-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).



$1 \times 10^6$  HeLa cells were intracellularly stained with 0.4 ug Anti-Human YTHDC2 (27779-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP, Clone: ) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).