For Research Use Only

YTHDC2 Polyclonal antibody

Catalog Number:27779-1-AP Featured Product 28 Publications

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Basic Information

Catalog Number:
27779-1-AP

Size:
150ul , Concentration: 800 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG26690

GenBank Accession Number:
BC137285

GeneID (NCBI):
64848

UNIPROT ID:
Q9H6S0

Full Name:
YTH domain containing 2

Observed MW:
160 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:8000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:1000-1:4000
IF/ICC 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:
WB, IHC, IF, IP, CoIP, RIP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, pig

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

Positive Controls:

WB : HepG2 cells, HeLa cells, MCF-7 cells, MDA-MB-231 cells

IP : HeLa cells,

IHC : rat testis tissue, human stomach cancer tissue

IF/ICC : HepG2 cells,

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

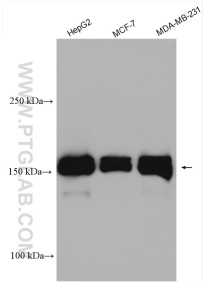
Storage

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

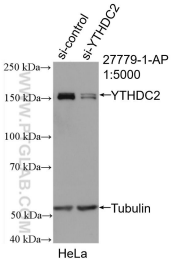
*** 20ul sizes contain 0.1% BSA

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

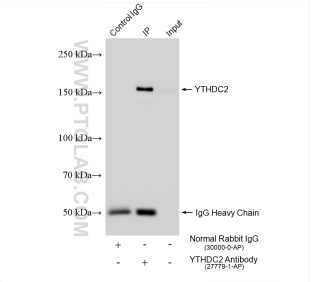
Selected Validation Data



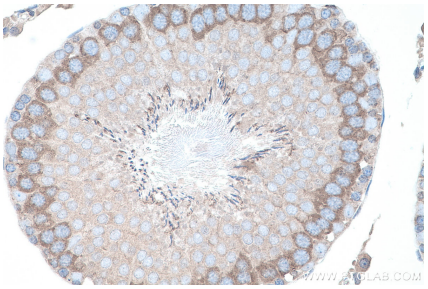
Various lysates were subjected to SDS PAGE followed by western blot with 27779-1-AP (YTHDC2 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



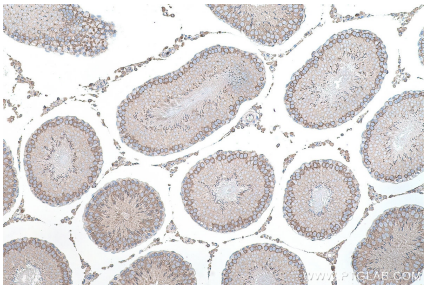
WB result of YTHDC2 antibody (27779-1-AP; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-YTHDC2 transfected HeLa cells.



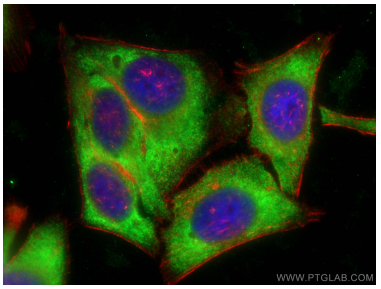
IP result of anti-YTHDC2 (IP:27779-1-AP, 4ug; Detection:27779-1-AP 1:5000) with HeLa cells lysate 1200 ug.



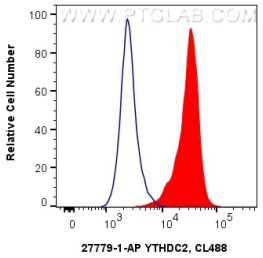
Immunohistochemical analysis of paraffin-embedded rat testis tissue slide using 27779-1-AP (YTHDC2 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



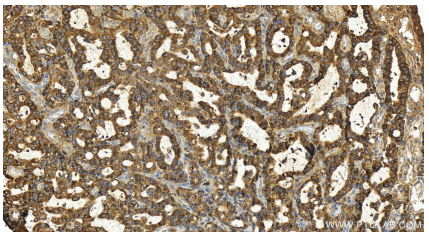
Immunohistochemical analysis of paraffin-embedded rat testis tissue slide using 27779-1-AP (YTHDC2 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



1X10^6 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).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 27779-1-AP (YTHDC2 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).