

For Research Use Only

YTHDF1 Polyclonal antibody

Catalog Number: 17479-1-AP

Featured Product

271 Publications



Basic Information

Catalog Number:

17479-1-AP

Size:

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

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG11509

GenBank Accession Number:

BC050284

GeneID (NCBI):

54915

UNIPROT ID:

Q9BYJ9

Full Name:

YTH domain family, member 1

Calculated MW:

559 aa, 61 kDa

Observed MW:

60 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: 1:250-1:1000

IF-P: 1:200-1:800

IF/ICC: 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, IP, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP, RIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, pig, monkey, chicken, zebrafish

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: HeLa cells, HepG2 cells, A549 cells, mouse brain tissue, rat brain tissue, HEK-293 cells, Jurkat cells, MCF-7 cells, NIH/3T3 cells

IP: mouse brain tissue,

IHC: human kidney tissue, human hypothalamus tissue

IF-P: mouse brain tissue,

IF/ICC: U2OS cells,

Background Information

YTHDF1, also named YTH domain-containing family protein 1 or C20orf21, is a 559 amino acid protein, which localizes in the cytoplasm. YTHDF1 specifically recognizes and binds N6-methyladenosine (m6A)-containing mRNAs, and promotes mRNA translation efficiency. M6A is a modification present at the internal sites of mRNAs and some non-coding RNAs and plays a role in the efficiency of mRNA splicing, processing, and stability. YTHDF1 acts as a regulator of mRNA translation efficiency: promotes ribosome loading to m6A-containing mRNAs and interacts with translation initiation factors eIF3 (EIF3A or EIF3B) to facilitate translation initiation. YTHDF1 exists two isoforms and the calculated molecular weight of isoforms are 61 kDa and 21 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Fanpeng Zhao	34593014	Mol Neurodegener	WB, IHC
Kusuma Suphakong	36183833	J Biol Chem	WB
Bin Zhang	32964498	Neurochem Res	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

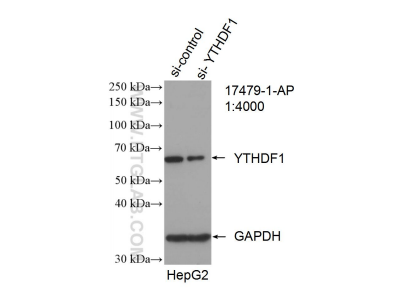
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

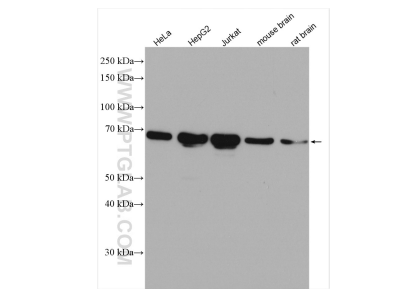
E: proteintech@ptglab.com
W: ptglab.com

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

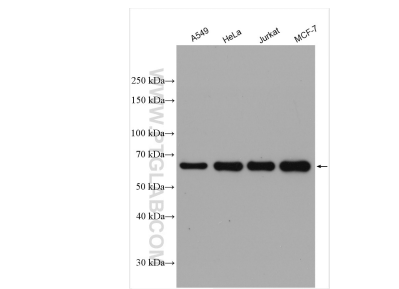
Selected Validation Data



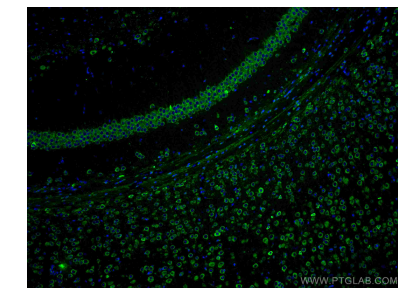
WB result of YTHDF1 antibody (17479-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-YTHDF1 transfected HepG2 cells.



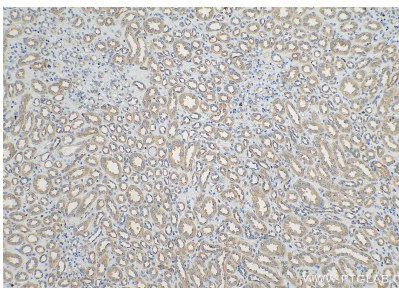
Various lysates were subjected to SDS PAGE followed by western blot with 17479-1-AP (YTHDF1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



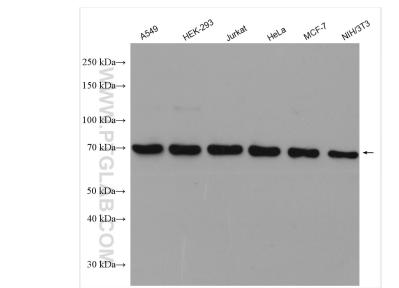
A549 cells were subjected to SDS PAGE followed by western blot with 17479-1-AP (YTHDF1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



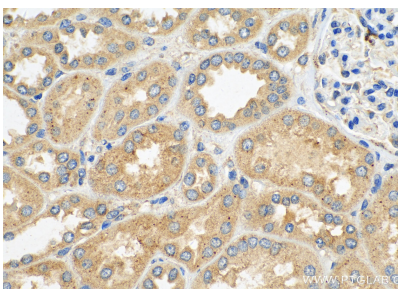
Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using YTHDF1 antibody (17479-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



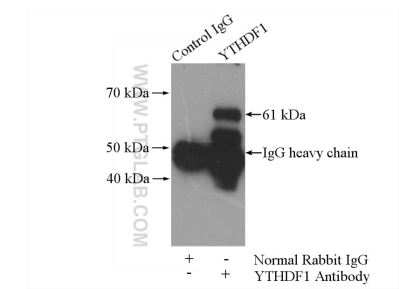
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 17479-1-AP (YTHDF1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



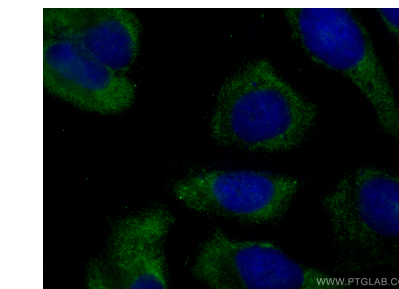
Various lysates were subjected to SDS PAGE followed by western blot with 17479-1-AP (YTHDF1 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 17479-1-AP (YTHDF1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-YTHDF1 (IP:17479-1-AP, 4ug; Detection:17479-1-AP 1:1000) with mouse brain tissue lysate 2640ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed U2OS cells using YTHDF1 antibody (17479-1-AP) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).