

For Research Use Only

# YTHDF1 Polyclonal antibody

Catalog Number: 17479-1-AP

Featured Product

75 Publications



## Basic Information

**Catalog Number:**

17479-1-AP

**Size:**

150ul, Concentration: 260 µg/ml by Bradford method using BSA as the standard;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG11509

**GenBank Accession Number:**

BC050284

**GeneID (NCBI):**

54915

**Full Name:**

YTH domain family, member 1

**Calculated MW:**

559 aa, 61 kDa

**Observed MW:**

65-70 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:8000

IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB

IHC 1:20-1:200

IF 1:200-1:800

## Applications

**Tested Applications:**

IF, IHC, IP, WB, ELISA

**Cited Applications:**

CoIP, IF, IHC, IP, RIP, WB

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, monkey, mouse, zebrafish

**Positive Controls:**

**WB:** HeLa cells, mouse brain tissue, HepG2 cells, Jurkat cells, A549 cells

**IP:** mouse brain tissue,

**IHC:** human brain tissue, human kidney tissue, human testis tissue, human spleen tissue, human ovary tissue

**IF:** mouse brain 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

YTHDF1, also named as 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 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 isoform and calculated molecular weight of isoforms are 61 kDa and 21 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Bin Zhang	32964498	Neurochem Res	WB
Lior Lasman	32943573	Genes Dev	IF
Xiaochuan Liu	32956623	Mol Ther	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

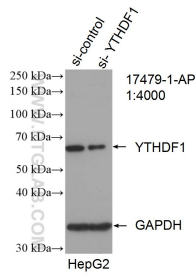
For technical support and original validation data for this product please contact:

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

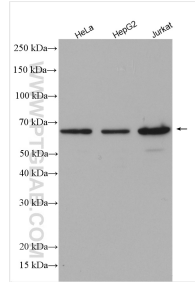
E: proteintech@ptglab.com  
W: ptglab.com

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

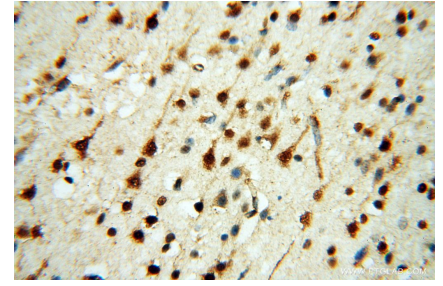
## Selected Validation Data



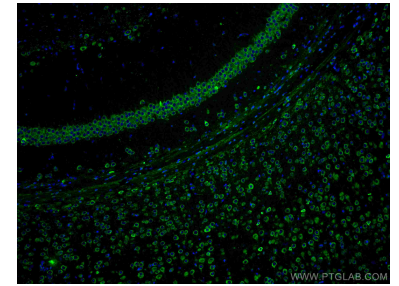
WB result of YTHDF1 antibody (17479-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-YTHDF1 transfected HepG2 cells.



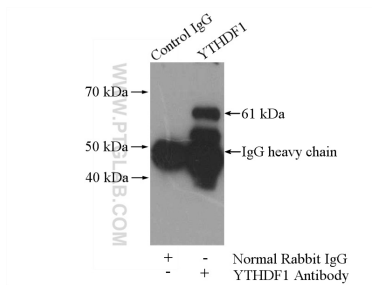
Various lysates were subjected to SDS PAGE followed by western blot with 17479-1-AP (YTHDF1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human brain using 17479-1-AP (YTHDF1 antibody) at dilution of 1:100 (under 40x lens).



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).



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