

For Research Use Only

YTHDF2 Polyclonal antibody

Catalog Number: 26771-1-AP

3 Publications



Basic Information

Catalog Number: 26771-1-AP	GenBank Accession Number: BC002559	Purification Method: Antigen affinity purification
Concentration: 500 µg/ml	GeneID (NCBI): 51441	Recommended Dilutions: WB: 1:500-1:2000
Source: Rabbit	UNIPROT ID: Q9Y5A9	IHC: 1:50-1:500
Isotype: IgG	Full Name: YTH domain family, member 2	IF/ICC: 1:50-1:500
Immunogen Catalog Number: AG25348	Calculated MW: 62 kDa	
	Observed MW: 65-70 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls: WB : Raji cells, mouse brain tissue
Cited Applications: WB, IF, IP	IHC : human testis tissue,
Species Specificity: human, mouse	IF/ICC : HepG2 cells,
Cited Species: human, mouse	
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

YTHDF2, also named as YTH domain-containing family protein 2, is a 579 amino acid protein, which contains 1 YTH domain. YTHDF2 specifically recognizes and binds N6-methyladenosine (m6A)-containing RNAs, and regulates mRNA stability. 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. YTHDF2 acts as a regulator of mRNA stability: binding to m6A-containing mRNAs results in the localization to mRNA decay sites, such as processing bodies (P-bodies), leading to mRNA degradation. YTHDF2 also acts as a promoter of cap-independent mRNA translation following heat shock stress: upon stress, relocalizes to the nucleus and specifically binds mRNAs with some m6A methylation mark at their 5'-UTR, protecting demethylation of mRNAs by FTO, thereby promoting cap-independent mRNA translation. The calculated molecular weight of YTHDF2 is 62 kDa, but the phosphorylated YTHDF2 is about 65-70 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Tao Liu	40480228	Mol Cell	WB, IP, IF
Yining Zhang	39924638	Clin Transl Med	
Honghu He	37309980	J Neurochem	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

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

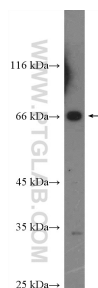
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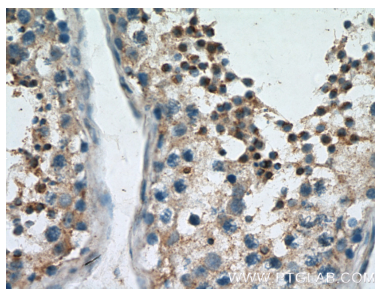
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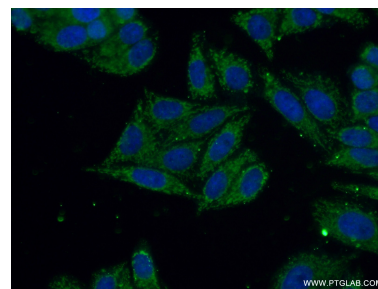
Selected Validation Data



Raji cells were subjected to SDS PAGE followed by western blot with 26771-1-AP (YTHDF2 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 26771-1-AP (YTHDF2 Antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 26771-1-AP (YTHDF2 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).