

For Research Use Only

YTHDF2 Recombinant antibody

Catalog Number: 81340-1-RR

Featured Product



Basic Information

Catalog Number:

81340-1-RR

Size:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5922

GenBank Accession Number:

BC002559

GeneID (NCBI):

51441

UNIPROT ID:

Q9Y5A9

Full Name:

YTH domain family, member 2

Calculated MW:

62 kDa

Observed MW:

65-70 kDa

Purification Method:

Protein A purification

CloneNo.:

3L6

Recommended Dilutions:

WB 1:5000-1:50000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IF/ICC, IP, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : HEK-293 cells, Jurkat cells, HeLa cells, Raji cells, NIH/3T3 cells, RAW 264.7 cells, C6 cells

IP : HeLa cells,

IF/ICC : sodium arsenite treated HeLa cells,

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.

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:

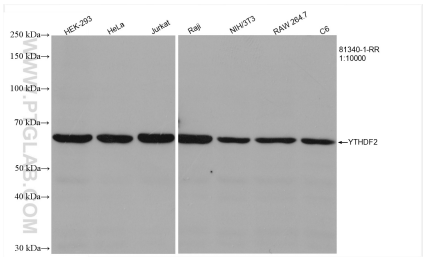
T: 4006900926

E: Proteintech-CN@ptglab.com

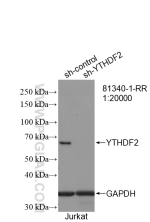
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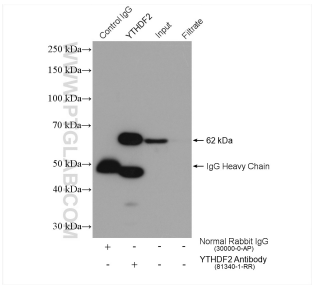
Selected Validation Data



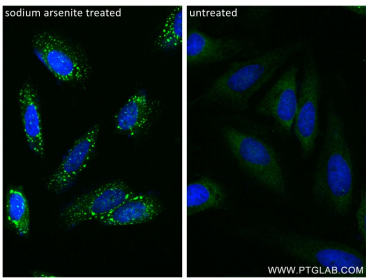
Various lysates were subjected to SDS PAGE followed by western blot with 81340-1-RR (YTHDF2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



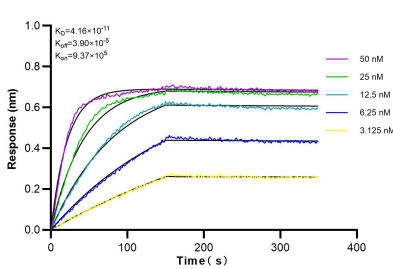
WB result of YTHDF2 antibody (81340-1-RR; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-YTHDF2 transfected Jurkat cells.



IP result of anti-YTHDF2 (IP:81340-1-RR, 4ug; Detection:81340-1-RR 1:1000) with HeLa cells lysate 1880 ug.



Immunofluorescent analysis of (4% PFA) fixed sodium arsenite treated HeLa cells using YTHDF2 antibody (81340-1-RR, Clone: 3L6) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 81340-1-RR against Human YTHDF2 were performed. The affinity constant is 41.6 pM.