

YTHDF1 / YTHDF2 Monoclonal antibody

Catalog Number: 68416-1-Ig

Basic Information

Catalog Number: 68416-1-Ig	GenBank Accession Number: BC002559	Purification Method: Protein A purification
Size: 150ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 51441	CloneNo.: 2F5H2
Source: Mouse	UNIPROT ID: Q9Y5A9	Recommended Dilutions: WB 1:5000-1:50000
Isotype: IgG2a	Full Name: YTH domain family, member 2	
Immunogen Catalog Number: AG5922	Calculated MW: 62 kDa	
	Observed MW: 63 kDa, 70 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : LNCaP cells, NIH/3T3 cells, HeLa cells, HEK-293 cells, Jurkat cells, 4T1 cells, HSC-T6 cells
Species Specificity: Human, mouse , rat	

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

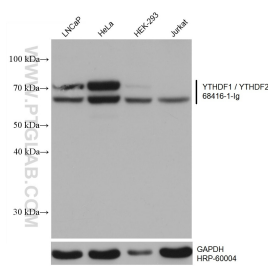
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

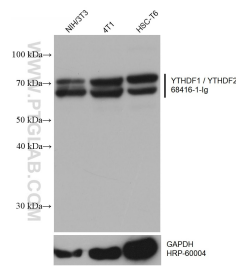
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68416-1-Ig (YTHDF2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



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