For Research Use Only

YTHDF1 / YTHDF2 Monoclonal antibody



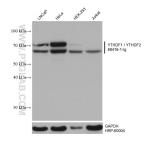
Catalog Number:68416-1-lg

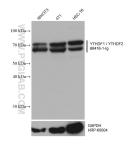
Basic Information	Catalog Number: 68416-1-Ig	GenBank Accession Number: BC002559	Purification Method: Protein A purification
	Size: 1000 µg/ml	GenelD (NCBI): 51441	CloneNo.: 2F5H2
	Source: Mouse	UNIPROT ID: Q9Y5A9	Recommended Dilutions: WB 1:5000-1:50000
	lsotype: IgG2a	Full Name: YTH domain family, member 2	
	Immunogen Catalog Number: AG5922	Calculated MW: 62 kDa	
		Observed MW: 63 kDa, 70 kDa	
Applications	Tested Applications:	Positive Controls:	
	WB, ELISA Species Specificity: Human, mouse , rat	WB : LNCaP cells, NIH/3T3 cells, HeLa cells, HEK-293 cells, Jurkat cells, 4T1 cells, HSC-T6 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 Storage Buffer: PBS with 0.02% sodium azide and		

For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

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Selected Validation Data





Various lysates were subjected to SDS PAGE followed by western blot with 68416-1-lg (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. Various lysates were subjected to SDS PAGE followed by western blot with 68416-1-1g (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.