

For Research Use Only



CoraLite® Plus 555-conjugated YTHDF2 Recombinant monoclonal antibody

Catalog Number: **CL555-81340**

Featured Product

Basic Information

Catalog Number: CL555-81340	GenBank Accession Number: BC002559	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 51441	CloneNo.: 3L6
Source: Rabbit	UNIPROT ID: Q9Y5A9	Recommended Dilutions: IF/ICC: 1:50-1:500
Isotype: IgG	Full Name: YTH domain family, member 2	Excitation/Emission maxima wavelengths: 554 nm / 570 nm
Immunogen Catalog Number: AG5922	Calculated MW: 62 kDa	
	Observed MW: 65-70 kDa	

Applications

Tested Applications: IF/ICC	Positive Controls: IF/ICC : sodium arsenite treated HeLa 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. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
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



Immunofluorescent analysis of (4% PFA) fixed sodium arsenite treated HeLa cells using Coralite® Plus 555 YTHDF2 antibody (CL555-81340, Clone: 3L6) at dilution of 1:200.