

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
Source:	Rabbit	GeneID (NCBI):	51441	CloneNo.:	3L6
Isotype:	IgG	UNIPROT ID:	Q9Y5A9	Recommended Dilutions:	IF/ICC: 1:50-1:500
Immunogen Catalog Number:	AG5922	Full Name:	YTH domain family, member 2	Excitation/Emission maxima wavelengths:	554 nm / 570 nm
		Calculated MW:	62 kDa		
		Observed MW:	65-70 kDa		

Applications

Tested Applications:	IF/ICC	Positive Controls:
Species Specificity:	human, mouse, rat	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, relocates 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:

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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 CoralLite® Plus 555 YTHDF2 antibody (CL555-81340, Clone: 3L6) at dilution of 1:200.