

# CoraLite® Plus 488-conjugated YTHDF2 Recombinant antibody

Catalog Number: **CL488-81340****Featured Product**

## Basic Information

**Catalog Number:**

CL488-81340

**Size:**

1000 µg/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:**

IF/ICC 1:50-1:500

**Excitation/Emission maxima  
wavelengths:**

493 nm / 522 nm

## Applications

**Tested Applications:**

IF/ICC

**Species Specificity:**

Human, mouse, rat

**Positive Controls:**

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:**

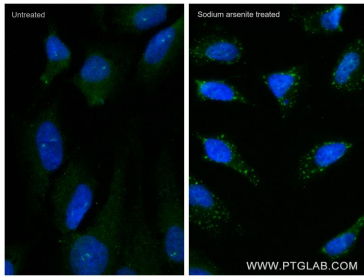
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed sodium arsenite treated HeLa cells using Coralite® Plus 488 YTHDF2 antibody (CL488-81340, Clone: 3L6 ) at dilution of 1:200.