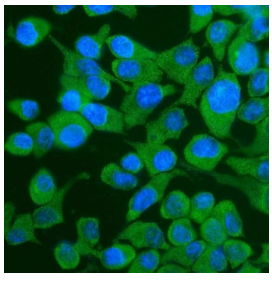
YTHDF2 Antibody (RQ5852)

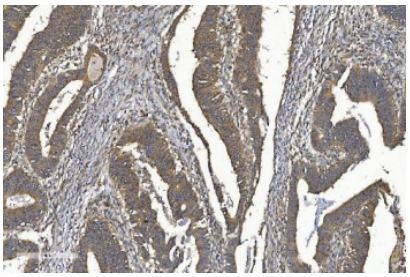
Catalog No.	Formulation	Size
RQ5852	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

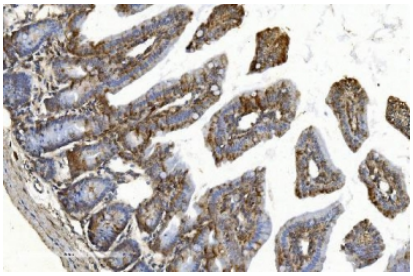
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q9Y5A9
Localization	Nuclear, cytoplasmic
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry: 1-2ug/ml Flow cytometry: 1-3ug/million cells Immunofluorescence: 2-4ug/ml
Limitations	This YTHDF2 antibody is available for research use only.



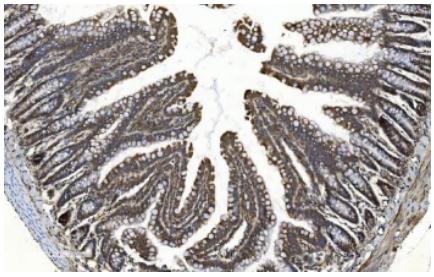
Immunofluorescent staining of FFPE human HepG2 cells with YTHDF2 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



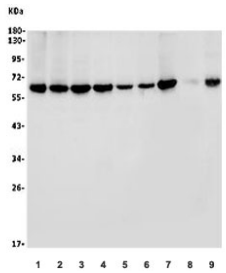
IHC staining of FFPE human rectal cancer with YTHDF2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



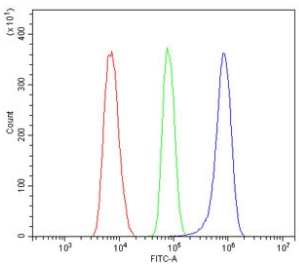
IHC staining of FFPE mouse intestine with YTHDF2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



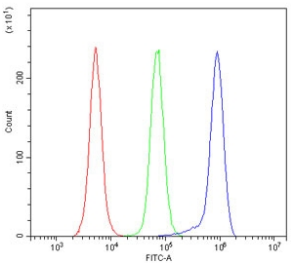
IHC staining of FFPE rat intestine with YTHDF2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



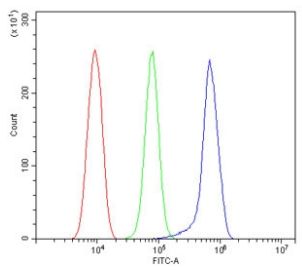
Western blot testing of human 1) K562, 2) Raji, 3) HL-60, 4) HeLa, 5) A549, 6) HepG2, 7) ThP-1, 8) rat liver and 9) mouse testis lysate with YTHDF2 antibody. Predicted molecular weight ~62 kDa.



Flow cytometry testing of human ThP-1 cells with YTHDF2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= YTHDF2 antibody.



Flow cytometry testing of mouse RAW264.7 cells with YTHDF2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= YTHDF2 antibody.



Flow cytometry testing of rat RH-35 cells with YTHDF2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= YTHDF2 antibody.

Description

YTH N6-methyladenosine RNA binding protein 2 is a protein that in humans is encoded by the YTHDF2 gene. This gene encodes a member of the YTH (YT521-B homology) superfamily containing YTH domain. The YTH domain is typical for the eukaryotes and is particularly abundant in plants. The YTH domain is usually located in the middle of the protein sequence and may function in binding to RNA. In addition to a YTH domain, this protein has a proline rich region which may be involved in signal transduction. An Alu-rich domain has been identified in one of the introns of this gene, which is thought to be associated with human longevity. In addition, reciprocal translocations between this gene and the Runx1 (AML1) gene on chromosome 21 has been observed in patients with acute myeloid leukemia. This gene was initially mapped to chromosome 14, which was later turned out to be a pseudogene. Alternatively spliced transcript variants encoding different isoforms have been identified in this gene.

Application Notes

Optimal dilution of the YTHDF2 antibody should be determined by the researcher.

Immunogen

Amino acids NDDDFEPYLSPQARPNNAYTAMSD from the human protein were used as the immunogen for the YTHDF2 antibody.

Storage

After reconstitution, the YTHDF2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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