# Rabbit YTHDF2 Polyclonal Antibody | anti-YTHDF2 antibody

Anti-YTHDF2 Antibody

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA19260** | **Rabbit** | **Human, Mouse, Rat** | **Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay** |

## PRODUCT SYNONYMS

YTHDF2; Polyclonal Antibody; Anti-YTHDF2 Antibody; HGRG8; YTH domain-containing family protein 2; CLL-associated antigen KW-14; High-glucose-regulated protein 8; Renal carcinoma antigen NY-REN-2; YTH N6-methyladenosine RNA binding protein 2; anti-YTHDF2 antibody

## PRODUCT SPECIFICATIONS

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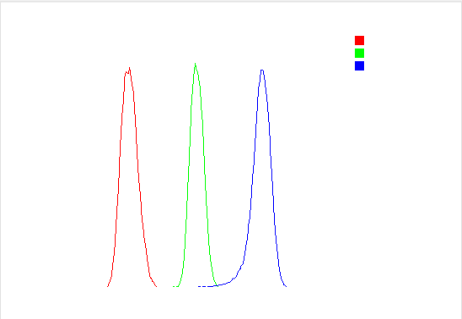
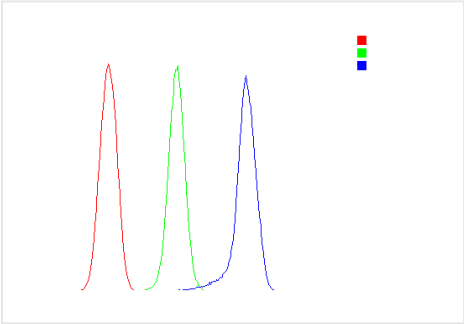
|---|---|
| **Host** | Rabbit |
| **Reactivity** | Human, Mouse, Rat |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Specificity** | Rabbit IgG polyclonal antibody for YTHDF2 detection. |
| **Purity/Purification** | Immunogen affinity purified. |
| **Form/Format** | Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3. |
| **Applicable Applications for anti-YTHDF2 antibody** | WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry) |
| **Application Notes** | WB: 0.1-0.25ug/ml\|Human, Mouse, Rat\|<br>IHC-P: 2-5ug/ml\|Human, Mouse, Rat\|<br>ICC/IF: 5ug/ml\|Human\|<br>FC/FACS/FCM: 1-3ug/1x106 cells\|Human, Mouse, Rat\| |
| **Immunogen** | A synthetic peptide corresponding to a sequence of human YTHDF2 (NDDDFEPYLSPQARPNNAYTAMSD). |
| **Reconstitution** | Add 0.2ml of distilled water will yield a concentration of 500ug/ml. |
| **Recommended Detection Systems** | Recommended Detection Systems |
| **Preparation and Storage** | Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing. |

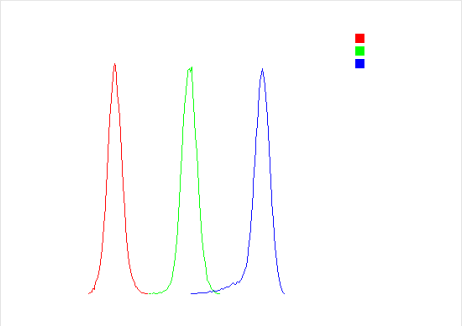
## IMAGES



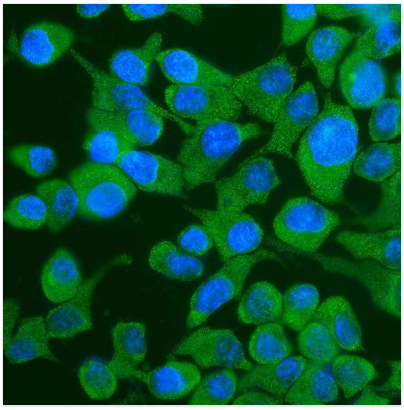
**FCM (Flow Cytometry)**
Figure 8. Flow Cytometry analysis of THP-1 cells using anti-YTHDF2 antibody (AAA19260).Overlay histogram showing THP-1 cells stained with AAA19260 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-YTHDF2 Antibody (AAA19260, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



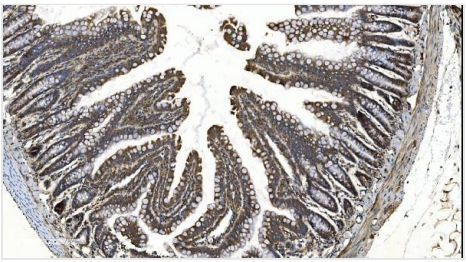
**FCM (Flow Cytometry)**
Figure 7. Flow Cytometry analysis of RH-35 cells using anti-YTHDF2 antibody (AAA19260).Overlay histogram showing RH-35 cells stained with AAA19260 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-YTHDF2 Antibody (AAA19260, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



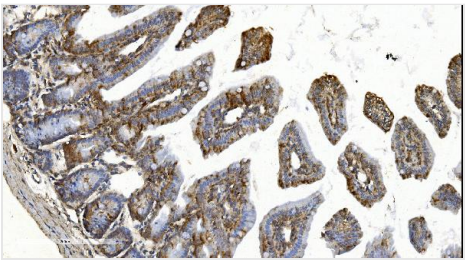
**FCM (Flow Cytometry)**
Figure 6. Flow Cytometry analysis of RAW264. 7 cells using anti-YTHDF2 antibody (AAA19260).Overlay histogram showing RAW264. 7 cells stained with AAA19260 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-YTHDF2 Antibody (AAA19260, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



**IF (Immunofluorescence)**
Figure 5. IF analysis of YTHDF2 using anti- YTHDF2 antibody (AAA19260).YTHDF2 was detected in immunocytochemical section of Hep cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5μg/mL rabbit anti- YTHDF2 Antibody (AAA19260) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



**IHC (Immunohistochemistry)**
Figure 4. IHC analysis of YTHDF2 using anti-YTHDF2 antibody (AAA19260).YTHDF2 was detected in paraffin-embedded section of rat intestine tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-YTHDF2 Antibody (AAA19260) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.



**IHC (Immunohistochemistry)**
Figure 3. IHC analysis of YTHDF2 using anti-YTHDF2 antibody (AAA19260).YTHDF2 was detected in paraffin-embedded section of mouse intestine tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-YTHDF2 Antibody (AAA19260) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.

## ADDITIONAL INFORMATION

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|---|---|
| **Related Product Information for anti-YTHDF2 antibody** | 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. |
| **References** | 1. Bonafe, M., Cardelli, M., Marchegiani, F., Cavallone, L., Giovagnetti, S., Olivieri, F., Lisa, R., Pieri, C., Franceschi, C. Increase of homozygosity in centenarians revealed by a new inter-Alu PCR technique. Exp. Gerontol. 36: 1063-1073, 2001.<br>2. Cardelli, M., Marchegiani, F., Cavallone, L., Olivieri, F., Giovagnetti, S., Mugianesi, E., Moresi, R., Lisa, R., Franceschi C. A polymorphism of the YTHDF2 gene (1p35) located in an Alu-rich genomic domain is associated with human longevity. J. Gerontol. A Biol. Sci. Med. Sci. 61: 547-556, 2006.<br>3. Liu, N., Dai, Q., Zheng, G., He, C., Parisien, M., Pan, T. N(6)-methyladenosine-dependent RNA structural switches regulate RNA-protein interactions. Nature 518: 560-564, 2015. |

## NCBI AND UNIPROT INFORMATION

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|---|---|
| **NCBI GI #** | 290543591 |
| **NCBI GeneID** | 51441 |
| **NCBI Accession #** | NP_001166299.1 |
| **NCBI GenBank Nucleotide #** | NM_001172828.1 |
| **UniProt Accession #** | Q9Y5A9; Q5VSZ9; Q8TDH0; Q9BUJ5; A6NKG4; A8K966; B4E1G7; D3DPM8 |
| **Molecular Weight** | 62,334 Da |
| **NCBI Official Full Name** | YTH domain-containing family protein 2 isoform 2 |
| **NCBI Official Synonym Full Names** | YTH domain family, member 2 |
| **NCBI Official Symbol** | YTHDF2 |
| **NCBI Official Synonym Symbols** | HGRG8; NY-REN-2 |
| **NCBI Protein Information** | YTH domain-containing family protein 2; 9430020E02Rik; CLL-associated antigen KW-14; high-glucose-regulated protein 8; renal carcinoma antigen NY-REN-2 |
| **UniProt Protein Name** | YTH domain-containing family protein 2 |
| **UniProt Gene Name** | **YTHDF2** |
| **UniProt Synonym Gene Names** | HGRG8 |
| **UniProt Entry Name** | YTHD2_HUMAN |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/polyclonal/ythdf2-antibody-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-flow-cytometry-elisa/19260