

Rabbit YTHDC2 Polyclonal Antibody | anti-YTHDC2 antibody

Anti-YTHDC2 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126558	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

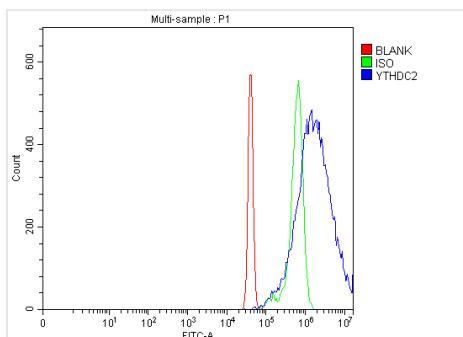
PRODUCT SYNONYMS

YTHDC2; Polyclonal Antibody; Anti-YTHDC2 Antibody Picoband; anti-YTHDC2 antibody

PRODUCT SPECIFICATIONS

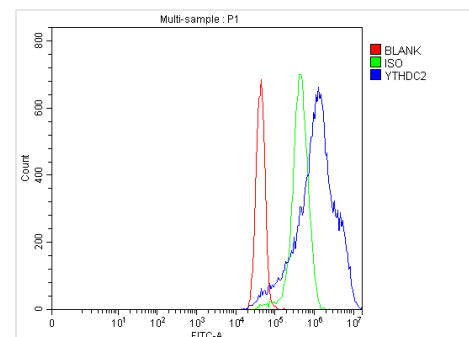
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-YTHDC2 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human YTHDC2 recombinant protein (Position: K105-K1231).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.

IMAGES



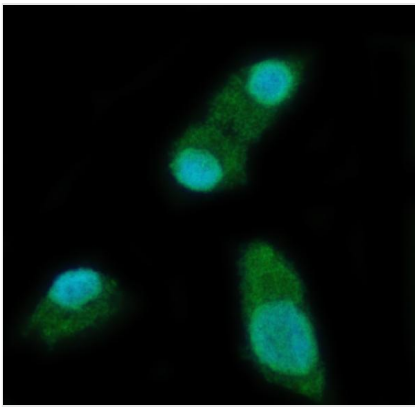
FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of SiHa cells using anti-YTHDC2 antibody (AAA126558). Overlay histogram showing SiHa cells stained with AAA126558 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-YTHDC2 Antibody (AAA126558, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



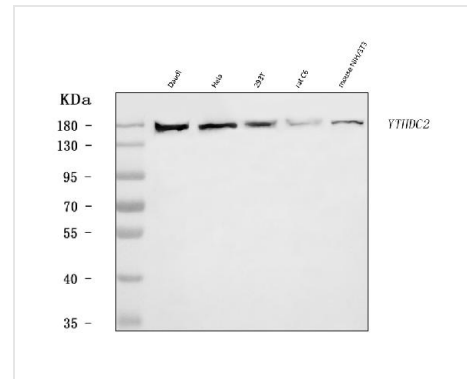
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of MCF-7 cells using anti-YTHDC2 antibody (AAA126558). Overlay histogram showing MCF-7 cells stained with AAA126558 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-YTHDC2 Antibody (AAA126558, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of YTHDC2 using anti-YTHDC2 antibody (AAA126558). YTHDC2 was detected in an immunocytochemical section of SiHa cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-YTHDC2 Antibody (AAA126558) overnight at 4 degree C. DyLight488 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.



WB (Western Blot)

Figure 1. Western blot analysis of YTHDC2 using anti-YTHDC2 antibody (AAA126558). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Daudi whole cell lysates, Lane 2: human Hela whole cell lysates, Lane 3: human 293T whole cell lysates, Lane 4: rat C6 whole cell lysates, Lane 5: mouse NIH/3T3 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-YTHDC2 antigen affinity purified polyclonal antibody (#AAA126558) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for YTHDC2 at approximately 175 kDa. The expected band size for YTHDC2 is at 160 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-YTHDC2 antibody	YTH domain containing 2 is a protein that in humans is encoded by the YTHDC2 gene. This gene encodes a member of the DEAH (Asp-Glu-Ala-His) subfamily of proteins, part of the DEAD (Asp-Glu-Ala-Asp) box family of RNA helicases. The encoded protein binds to N6-methyladenosine, a common modified RNA nucleotide that is enriched in the stop codons and 3' UTRs of eukaryotic messenger RNAs. Binding of proteins to this modified nucleotide may regulate mRNA translation and stability. This gene may be associated with susceptibility to pancreatic cancer in human patients, and knockdown of this gene resulted in reduced proliferation in a human liver cancer cell line.
Product Categories/Family for anti-YTHDC2 antibody	Primary Antibodies , Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	269847874
NCBI GeneID	64848
NCBI Accession #	NP_073739.3
NCBI GenBank Nucleotide #	NM_022828.4
UniProt Accession #	Q9H6S0 ; B2RP66
Molecular Weight	160,248 Da
NCBI Official Full Name	probable ATP-dependent RNA helicase YTHDC2 isoform 1
NCBI Official Synonym Full Names	YTH domain containing 2
NCBI Official Symbol	YTHDC2
NCBI Official Synonym Symbols	CAHL
NCBI Protein Information	probable ATP-dependent RNA helicase YTHDC2
UniProt Protein Name	Probable ATP-dependent RNA helicase YTHDC2

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/ythdc2-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/126558>