

KD-Validated Anti-YTHDC2 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI2288**Specification****KD-Validated Anti-YTHDC2 Rabbit Monoclonal Antibody - Product Information**

Application	WB
Primary Accession	Q9H6S0
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 161 kDa; observed, 160 kDa
Gene Name	KDa
Aliases	Ythdc2 YTHDC2; YTH N6-Methyladenosine RNA Binding Protein C2; 3'-5' RNA Helicase YTHDC2; YTH Domain Containing 2; DKFZp564A186; FLJ10053; FLJ2194; HYTHDC2; Probable ATP-Dependent RNA Helicase YTHDC2; CsA-Associated Helicase-Like Protein; YTH Domain-Containing Protein 2; EC 3.6.4.13; EC 3.6.1; CAHL
Immunogen	Recombinant protein of mouse YTHDC2

KD-Validated Anti-YTHDC2 Rabbit Monoclonal Antibody - Additional Information

Gene ID	64848
Other Names	
3'-5' RNA helicase YTHDC2, 3.6.4.13, YTH domain-containing protein 2, hYTHDC2, YTHDC2 {ECO:0000303 PubMed:29033321, ECO:0000312 HGNC:HGNC:24721}	

KD-Validated Anti-YTHDC2 Rabbit Monoclonal Antibody - Protein Information

Name YTHDC2 {ECO:0000303|PubMed:29033321, ECO:0000312|HGNC:HGNC:24721}

Function

3'-5' RNA helicase that plays a key role in the male and female germline by promoting transition from mitotic to meiotic divisions in stem cells (PubMed:26318451, PubMed:29033321, PubMed:29970596). Specifically recognizes and binds N6-methyladenosine (m6A)-containing RNAs, a modification present at internal sites of mRNAs and some non-coding RNAs that plays a role in the efficiency of RNA processing and stability (PubMed:26318451, PubMed:29033321). Essential for ensuring a successful progression of the meiotic program in the germline by regulating the level of m6A-containing RNAs (By similarity). Acts by

binding and promoting degradation of m6A- containing mRNAs: the 3'-5' RNA helicase activity is required for this process and RNA degradation may be mediated by XRN1 exoribonuclease (PubMed:29033321). Required for both spermatogenesis and oogenesis (By similarity).

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:B2RR83}. Cytoplasm, perinuclear region

Tissue Location

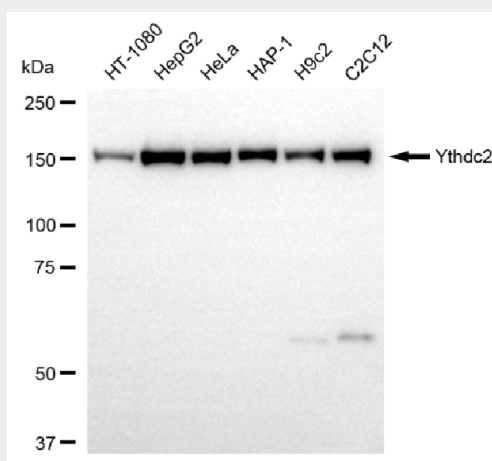
Expressed in testis (PubMed:29087293). Not detected in spermatogonia next to the tubule wall but is strongly expressed in spermatocytes, suggesting that it is up-regulated in germ cells upon entry into meiosis (PubMed:29087293).

KD-Validated Anti-YTHDC2 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

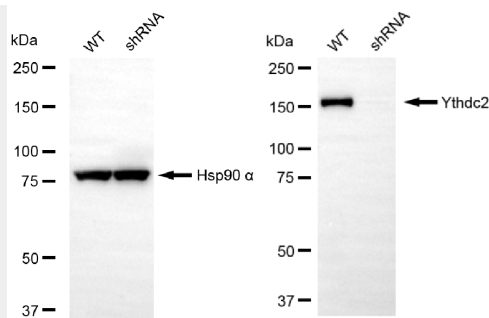
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-YTHDC2 Rabbit Monoclonal Antibody - Images



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Western blotting analysis using anti-Ythdc2 antibody (Cat#AGI2288). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Ythdc2 antibody (Cat#AGI2288, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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Western blotting analysis using anti-Ythdc2 antibody (Cat#AGI2288). Ythdc2 expression in wild-type (WT) and YTHDC2 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-Ythdc2 antibody (Cat#AGI2288, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.