

YTHDC2 Rabbit mAb
Catalog # AP76768**Specification****YTHDC2 Rabbit mAb - Product Information**

Application	WB, IP
Primary Accession	B2RR83
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	161092

YTHDC2 Rabbit mAb - Additional Information**Gene ID** 240255**Other Names**

Ythdc2

Dilution

WB~~1/500-1/1000

IP~~N/A

Format

50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.

Storage

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

YTHDC2 Rabbit mAb - Protein Information**Name** Ythdc2 {ECO:0000303|PubMed:28809393, ECO:0000312|MGI:MGI:2448561}**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:28380054, PubMed:28809393, PubMed:29033321, PubMed:29087293, PubMed:29360036, PubMed:32470506). 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:29360036). Essential for ensuring a successful progression of the meiotic program in the germline by regulating the level of m6A-containing RNAs (PubMed:29033321). 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 (PubMed:28809393, PubMed:29033321).

Cellular Location

Cytoplasm. Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:Q9H6S0}

Tissue Location

Present in male and female germ cells (at protein level) (PubMed:29033321, PubMed:32470506). Highly expressed in testis (PubMed:28809393, PubMed:29033321, PubMed:29087293, PubMed:29360036) 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 (at protein level) (PubMed:29087293)

YTHDC2 Rabbit mAb - 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](#)

YTHDC2 Rabbit mAb - Images

