

## YTHDC2 Rabbit monoclonal antibody

Catalog: MB66466

Host: Rabbit

Reactivity: Human

### BackGround:

YTH domain-containing protein 1 (YTHDC1) and YTH domain-containing protein 2 (YTHDC2) both belong to a family of proteins that bind to RNA. YTHDC1 and YTHDC2 both recognize and bind to N6-methyladenosine(m6A)-containing RNAs; binding is mediated through the YTH domains. m6A is a modification that is present at internal sites of mRNAs and some non-coding RNAs and plays a role in regulating mRNA splicing, processing, and stability. YTHDC1, also known as splicing factor YT521, regulates alternative splicing by functioning as a key regulator of exon-inclusion or exon-skipping. YTHDC1 promotes exon-inclusion by recruiting pre-mRNA splicing factor SRSF3 to regions containing m6A, while repressing exon-skipping by blocking SRSF10 binding to these same regions. Increased expression of YTHDC1 promotes malignant endometrial carcinoma (EC) through alternative splicing of vascular endothelial growth factor A (VEGF-A), resulting in an increase in VEGF-165 isoform and increased EC cell invasion. YTHDC2 functions to enhance the translation efficiency of target mRNAs and may play a role in spermatogenesis.

### Product:

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

### Molecular Weight:

~ 160 kDa

### Swiss-Prot:

Q9H6S0

### Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

### Applications:

WB (1/500 - 1/1000), IP (1/10 - 1/50)

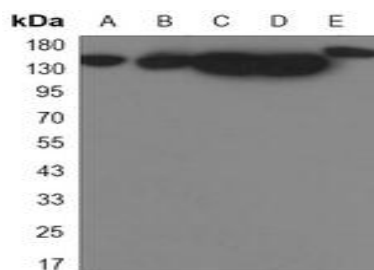
### Storage&Stability:

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

### Specificity:

Recognizes endogenous levels of YTHDC2 protein.

### DATA:



Western blot analysis of YTHDC2 expression in Hela (A), A549 (B), HL60 (C), U251 (D), U87MG (E) whole cell lysates.

### Note:

For research use only, not for use in diagnostic procedure.

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