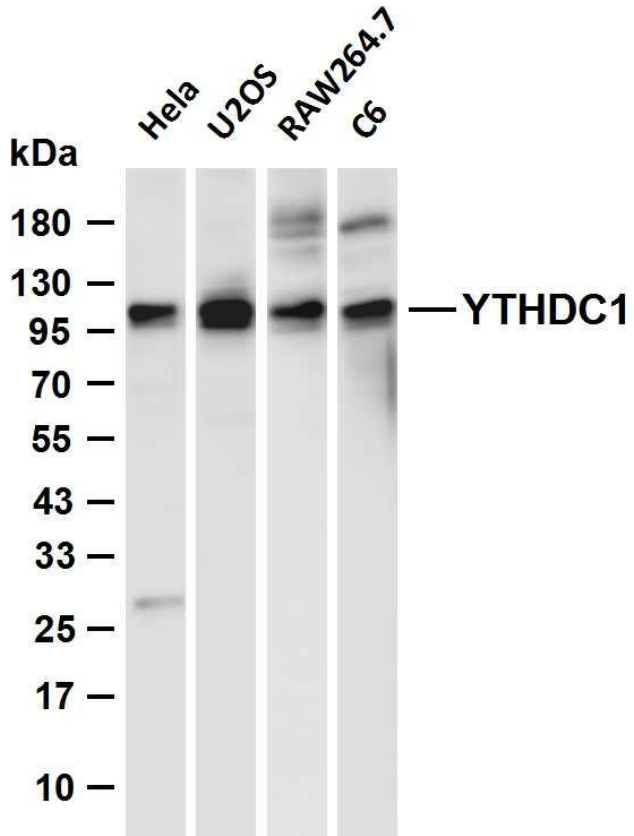
YTHDC1 Rabbit mAb

Catalog No	YP-rAb-18564
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB、IHC、IF、ELISA
Gene Name	YTHDC1 KIAA1966 YT521
Immunogen	The specific immunogen used to produce this antibody is proprietary information.
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Purification	Recombinant Antibody expressed in animal component-free (ACF) media, purified via Protein A affinity chromatography.
Dilution	IHC 1:200-1:1000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000 Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0 (Cat#YS0004)
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15°C to -25°C/1 year(Do not lower than -25°C)
Synonyms	YTHDC1 KIAA1966 YT521;YTH domain-containing protein 1 (Putative splicing factor YT521);YTH domain-containing protein 1 ; Putative splicing factor YT521 ;
Observed Band	110kD
Calculated Molecular Weight	85kD
Cell Pathway	Nucleus . Nucleus speckle . Localizes to a novel subnuclear structure , the YT bodies. .
Tissue Specificity	
Function	Regulator of alternative splicing that specifically recognizes and binds N6-methyladenosine (m6A) -containing RNAs . M6A is a modification present at internal sites of mRNAs and some non-coding RNAs and plays a role in the efficiency of mRNA splicing , processing and stability . Acts as a key regulator of exon-inclusion or exon-skipping during alternative splicing via interaction with mRNA splicing factors SRSF3 and SRSF10 . Specifically binds m6A-containing mRNAs and promotes recruitment of SRSF3 to its mRNA-binding elements adjacent to m6A sites , leading to exon-inclusion during alternative splicing . In contrast , interaction with SRSF3 prevents interaction with SRSF10 , a splicing factor that promotes exon skipping: this prevents SRSF10 from binding to its mRNA-binding sites close to m6A-containing regions , leading to inhibit exon skipping during alternative splicing . May also regulate alternative splice site selection . Also involved in nuclear export of m6A-containing mRNAs via interaction with SRSF3: interaction with SRSF3 facilitates m6A-containing

	mRNA-binding to both SRSF3 and NXF1 , promoting mRNA nuclear export . Involved in S-adenosyl-L-methionine homeostasis by regulating expression of MAT2A transcripts , probably by binding m6A-containing MAT2A mRNAs (By similarity) . Also recognizes and binds m6A on other RNA molecules . Involved in random X inactivation mediated by Xist RNA: recognizes and binds m6A-containing Xist and promotes transcription repression activity of Xist . Also recognizes and binds m6A-containing single-stranded DNA . Involved in germline development: required for spermatogonial development in males and oocyte growth and maturation in females , probably via its role in alternative splicing (By similarity) .
Background	
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-YTHDC1 antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody.

Lane 1: Hela

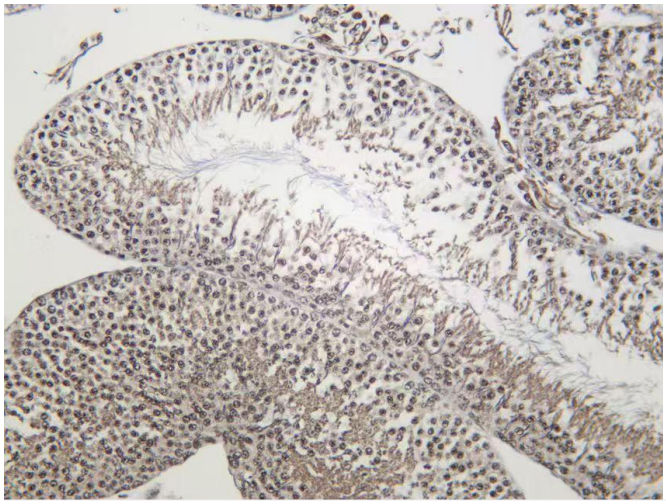
Lane 2: U2OS

Lane 3: RAW264.7

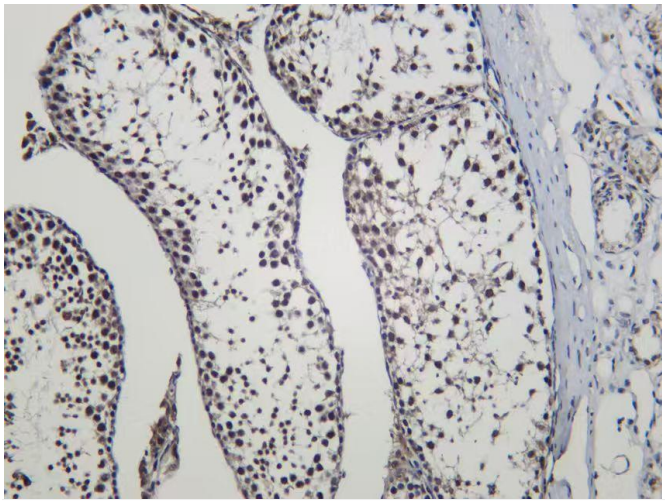
Lane 4: C6

Predicted band size: 85kDa

Observed band size: 110kDa



Rat testis was stained with anti-YTHDC1 Rabbit antibody



Mouse testis was stained with anti-YTHDC1 Rabbit antibody