

YTHDF1 (PT0326R) PT® Rabbit mAb

Catalog No :	YM8192
Reactivity :	Human; Mouse; Rat;
Applications :	WB;IHC;IF;IP;ELISA
Gene Name :	Ythdf1
Protein Name :	YTH domain-containing family protein 1 (Dermatomyositis associated with cancer putative autoantigen 1 homolog) (DACA-1 homolog)
Human Gene Id :	54915
Human Swiss Prot No :	Q9BYJ9
Rat Swiss Prot No :	P59326
Specificity :	endogenous
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Monoclonal, rabbit, IgG, Kappa
Dilution :	IHC 1:200-1:1000,WB 1:1000-1:5000,IF 1:200-1:1000,ELISA 1:5000-1:20000,IP 1:50-1:200,
Purification :	Protein A
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	61kD
Observed Band :	70kD
Background :	Enables N6-methyladenosine-containing RNA binding activity and ribosome binding activity. Involved in mRNA destabilization; positive regulation of translational initiation; and stress granule assembly. Located in P-body and cytoplasmic stress granule. [provided by Alliance of Genome Resources, Apr

2022]

Function :

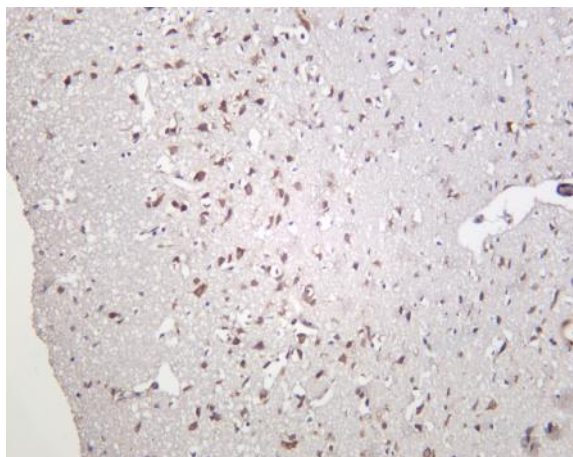
Specifically recognizes and binds N6-methyladenosine (m6A)-containing mRNAs, and regulates their stability (PubMed:30401835, PubMed:32943573). M6A is a modification present at internal sites of mRNAs and some non-coding RNAs and plays a role in mRNA stability and processing (PubMed:30401835, PubMed:32943573). Acts as a regulator of mRNA stability by promoting degradation of m6A-containing mRNAs via interaction with the CCR4-NOT complex (By similarity). The YTHDF paralogs (YTHDF1, YTHDF2 and YTHDF3) share m6A-containing mRNAs targets and act redundantly to mediate mRNA degradation and cellular differentiation (PubMed:32943573). Required to facilitate learning and memory formation in the hippocampus by binding to m6A-containing neuronal mRNAs (PubMed:30401835). Acts as a regulator of axon guidance by binding to m6A-containing ROBO3 transcripts (PubMed:30843071). Acts as a negative regulator

Subcellular Location :Cytoplasm

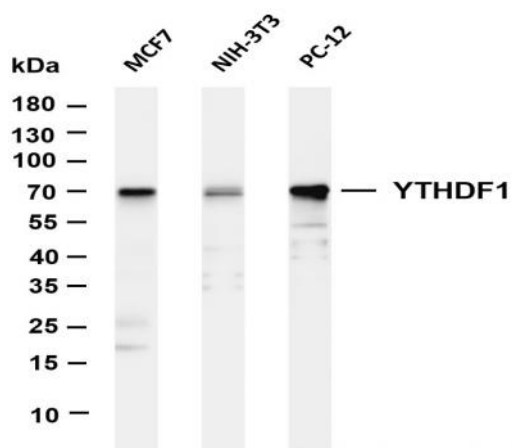
Expression :

In brain, preferentially expressed in the hippocampus. {ECO:0000269|PubMed:30401835}.

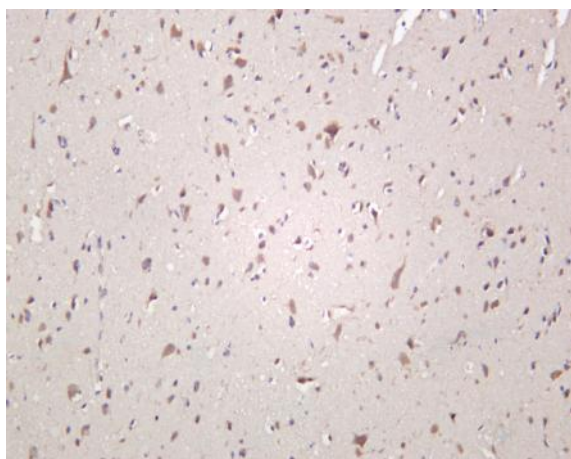
Products Images



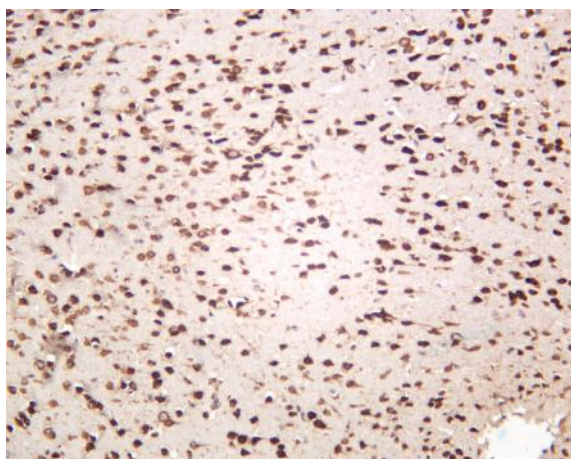
Rat brain was stained with anti-YTHDF1 (PT0326R) rabbit antibody



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-YTHDF1 (PT0326R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: MCF7 Lane 2: NIH-3T3 Lane 3: PC-12 Predicted band size: 61kDa Observed band size: 70kDa



Human brain was stained with anti-YTHDF1 (PT0326R) rabbit antibody



Mouse brain was stained with anti-YTHDF1 (PT0326R) rabbit antibody