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Mouse Monoclonal Antibody YTHDF1 conjugated to Sepharose Beads

CatalogNo: ANT8192-S

Size 200ul

Storage Store at 4 °C for frequent use

Description

This Antagene antibody is immobilized via covalent binding of primary amino groups to Nhydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays.

YTHDF1 (ANT0026R) Rabbit mAb

Formulation: 50% slurry in PBS pH 7.2 with 0.01mg NaN3a3 preservative.

Host Species Rabbit 	• Human,Mouse,Rat,	Reactivity • WB,IHC,IF,IP,ELISA	Applications
MW • 61kD (Calc 70kD (Observ		Isotype	

Recommended Dilution Ratios

IP

Basic Information

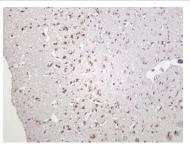
Clonality Monoclonal

Clone Number ANT0026R

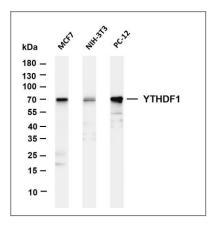
Immunogen Information

Specificity	Endo	ogenous				
Gene name		Ythdf1				
Protein Name		YTH domain-containing family protein 1 (Dermatomyositis associated with cancer putative autoantigen 1 homolog) (DACA-1 homolog)				
		Organism	Gene ID	UniProt ID		
		Human	<u>54915;</u>	<u>Q9BYJ9;</u>		
		Rat		<u>P59326;</u>		
Cellular		Cytoplasm				
Localization						
Tissue specificity In brain, preferentially expressed in the hippocampus. {ECO:0000269 PubMed:30401835}.						
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:30728504). In the context of tumorigenesis, negative regulation of antigen cross-presentation limits the anti-tumor response by reducing efficiency of tumor-antigen cross-presentation limits the anti-tumor response by reducing efficiency of tumor-antigen cross-presentation limits the anti-tumor response by undergoing liquid-liquid phase separation upon binding to mRNAs containing multiple m6A-modified residues: polymethylated mRNAs act as a multivalent scaffold for the binding of YTHDF proteins, juxtaposing their disordered regions and thereby leading to phase separation (By similarity). The resulting mRNA-YTHDF complexes then partition into different endogenous phase-separated membraneless compartments, such as P-bodies or neuronal RNA granules (By similarity).				

Validation Data



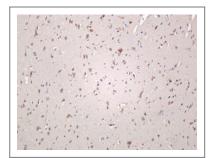
Rat brain was stained with anti-YTHDF1 (ANT0026R)



rabbit antibody

Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-YTHDF1 (ANT0026R) antibody. The HRPconjugated 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 (ANT0026R) rabbit antibody



Mouse brain was stained with anti-YTHDF1 (ANT0026R) rabbit antibody

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