

Product Name: KD-Validated YTHDF1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00302**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 60.9kDa

Antigen Information

Gene Name	Ythdf1 YTHDF1; YTH N6-Methyladenosine RNA Binding Protein F1; C20orf21; Dermatomyositis Associated With Cancer Putative Autoantigen 1; YTH N(6)-Methyladenosine RNA Binding
Alternative Names	Protein 1; YTH N6-Methyladenosine RNA Binding Protein 1; YTH Domain-Containing Family Protein 1; YTH Domain Family, Member 1; YTH Domain Family 1; FLJ20391; DACA-1; DF1; YTH Domain Family Protein 1
Gene ID	54915.0
SwissProt ID	Q9BYJ9
Immunogen	Recombinant protein of mouse YTHDF1

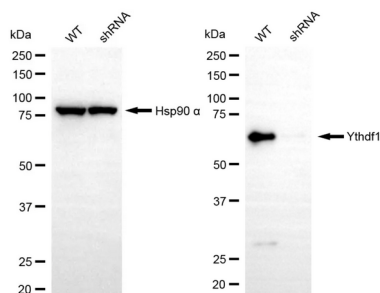
Background

Enables N6-methyladenosine-containing RNA reader 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. Implicated in colorectal cancer. [provided by Alliance of Genome Resources, Jul 2025]

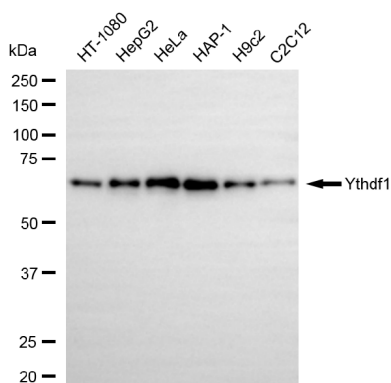
Research Area

Cell Biology

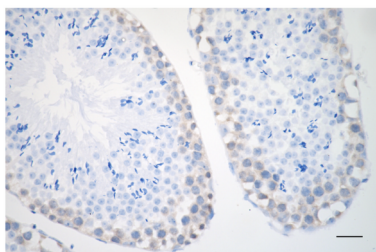
Image Data



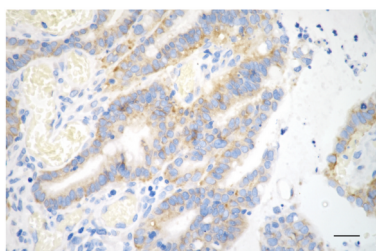
Western blotting analysis using ythdf1 antibody (KVA00302). YTHDF1 expression in wild-type (WT) and YTHDF1 shRNA knockdown (KD) HeLa cells with 20 μ g of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with ythdf1 antibody (KVA00302, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



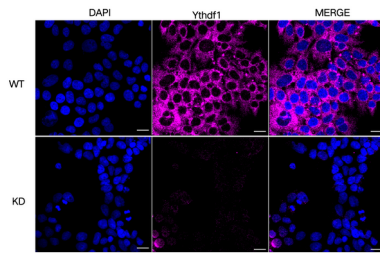
Western blotting analysis using Ythdf1 antibody (KVA00302). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Ythdf1 antibody (KVA00302, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



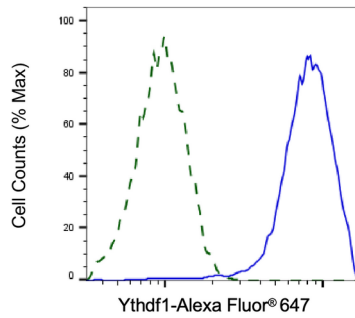
Immunohistochemistry was performed on paraffin-embedded mouse testis tissue using ythdf1 antibody (KVA00302, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40 $\times$ objective). Scale bar: 25 μ m.



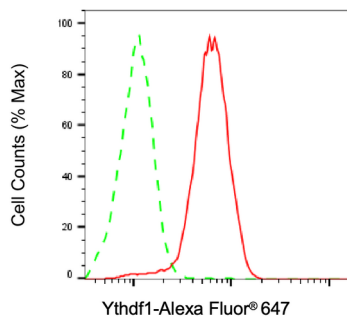
Immunohistochemistry was performed on paraffin-embedded human sigmoid colon carcinoma using ythdf1 antibody (KVA00302, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40 $\times$ objective). Scale bar: 25 μ m.



Immunocytochemical staining of HeLa cells using Ythdf1 antibody (KVA00302, 1:1,000), Top panel: wild-type (WT); Bottom panel: Ythdf1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; Ythdf1 was stained magenta with Alexa Fluor® 647. Scale bar, 20 μ m.



Validation of Ythdf1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Ythdf1 antibody (KVA00302, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Ythdf1 expression in HAP-1 cells using Ythdf1 antibody (KVA00302, 1:2,000). Green, isotype control; red, Ythdf1.