

Anti-DDX39A Antibody [PSH05-57]

HA722377



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse
Applications:	WB, IF-Cell, IHC-P, IP, IF-Tissue
Molecular Wt:	Predicted band size: 49 kDa
Clone number:	PSH05-57

Description: ATP-dependent RNA helicase DDX39 is an enzyme that in humans is encoded by the DDX39 gene. This gene encodes a member of the DEAD box protein family. These proteins are characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD) and are putative RNA helicases. They are implicated in a number of cellular processes involving alteration of RNA secondary structure, such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. Based on their distribution patterns, some members of the DEAD box protein family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division.

Immunogen: Synthetic peptide within human DDX39A aa 1-50 / 427.

Positive control: Jurkat cell lysate, HeLa cell lysate, HepG2 cell lysate, NIH/3T3 cell lysate, mouse testis tissue lysate, HeLa, human colon tissue, mouse colon tissue.

Subcellular location: Nucleus, Cytoplasm.

Database links: SwissProt: O00148 Human | Q8VDW0 Mouse

Recommended Dilutions:

WB	1:1,000
IF-Cell	1:100
IHC-P	1:1,000-1:5,000
IP	1-2µg/sample
IF-Tissue	1:200-1:1,000

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

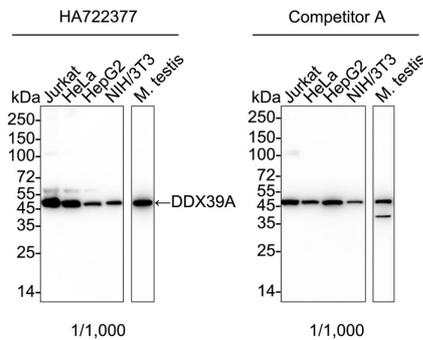
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Images

Fig1: Western blot analysis of DDX39A on different lysates with Rabbit anti-DDX39A antibody (HA722377) at 1/1,000 dilution and competitor's antibody at 1/1,000 dilution.



Lane 1: Jurkat cell lysate (20 µg/Lane)
 Lane 2: HeLa cell lysate (20 µg/Lane)
 Lane 3: HepG2 cell lysate (20 µg/Lane)
 Lane 4: NIH/3T3 cell lysate (20 µg/Lane)
 Lane 5: Mouse testis tissue lysate (10 µg/Lane)

Predicted band size: 49 kDa
 Observed band size: 49 kDa

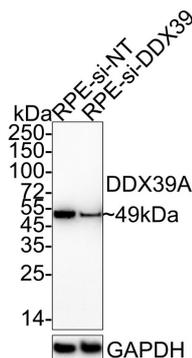
Exposure time: 25 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDm/TBST for 1 hour at room temperature. The primary antibody (HA722377) at 1/1,000 dilution and competitor's antibody at 1/1,000 dilution were used in 5% NFDm/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Western blot analysis of DDX39A on different lysates with Rabbit anti-DDX39A antibody (HA722377) at 1/1,000 dilution.

Lane 1: RPE-si NT cell lysate
 Lane 2: RPE-si DDX39A cell lysate



Lysates/proteins at 20 µg/Lane.

Predicted band size: 49 kDa
 Observed band size: 49 kDa

Exposure time: 42 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDm/TBST for 1 hour at room temperature. The primary antibody (HA722377) at 1/1,000 dilution was used in 5% NFDm/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

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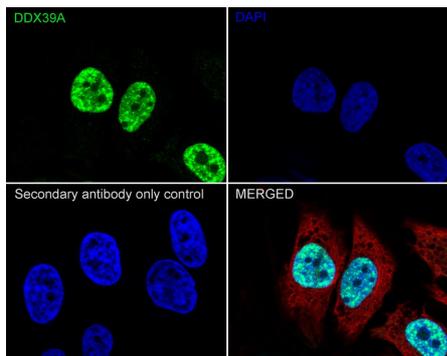
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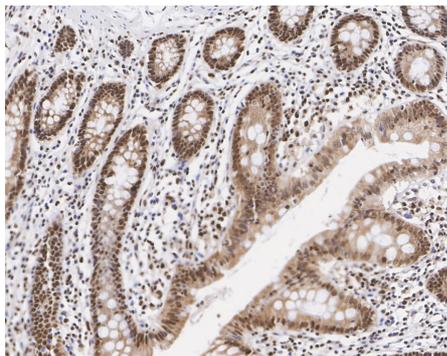
Fig3: Immunocytochemistry analysis of HeLa cells labeling DDX39A with Rabbit anti-DDX39A antibody (HA722377) at 1/100 dilution.



Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-DDX39A antibody (HA722377) at 1/100 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

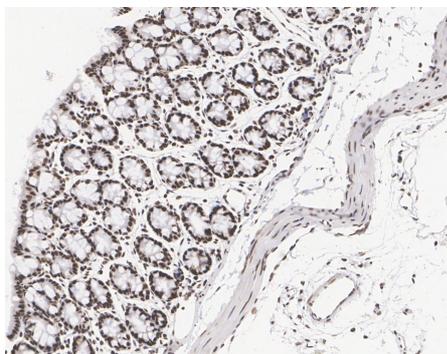
Beta tubulin (M1305-2, red) was stained at 1/100 dilution overnight at +4°C. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

Fig4: Immunohistochemical analysis of paraffin-embedded human colon tissue with Rabbit anti-DDX39A antibody (HA722377) at 1/5,000 dilution.



The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) (high pressure) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA722377) at 1/5,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Fig5: Immunohistochemical analysis of paraffin-embedded mouse colon tissue with Rabbit anti-DDX39A antibody (HA722377) at 1/1,000 dilution.



The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) (high pressure) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA722377) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

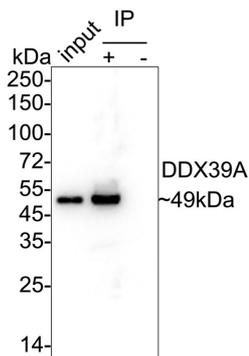


Fig6: DDX39A was immunoprecipitated from 0.2 mg HeLa cell lysate with HA722377 at 2 μ g/10 μ l beads. Western blot was performed from the immunoprecipitate using HA722377 at 1/1,000 dilution. Anti-Rabbit IgG for IP Nano-secondary antibody (NBI01H) at 1/5,000 dilution was used for 1 hour at room temperature.

Lane 1: HeLa cell lysate (input)

Lane 2: HA722377 IP in HeLa cell lysate

Lane 3: Rabbit IgG instead of HA722377 in HeLa cell lysate

Blocking/Dilution buffer: 5% NFDM/TBST

Exposure time: 10 seconds; ECL: K1801

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Bao Y et al. DDX39 as a predictor of clinical prognosis and immune checkpoint therapy efficacy in patients with clear cell renal cell carcinoma. *Int J Biol Sci.* 2021 Jul
2. Xing C et al. DDX39 Overexpression Predicts a Poor Prognosis and Promotes Aggressiveness of Melanoma by Cooperating With SNAIL. *Front Oncol.* 2020 Aug

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