

Anti-HuR / ELAVL1 Antibody [JM96-33]

ET1705-81



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IHC-P, IP, IF-Cell
Molecular Wt:	Predicted band size: 36 kDa
Clone number:	JM96-33

Description: RNA-binding protein that binds to the 3'-UTR region of mRNAs and increases their stability. Involved in embryonic stem cells (ESCs) differentiation: preferentially binds mRNAs that are not methylated by N6-methyladenosine (m6A), stabilizing them, promoting ESCs differentiation. Binds to poly-U elements and AU-rich elements (AREs) in the 3'-UTR of target mRNAs. Binds avidly to the AU-rich element in FOS and IL3/interleukin-3 mRNAs. In the case of the FOS AU-rich element, binds to a core element of 27 nucleotides that contain AUUUA, AUUUUA, and AUUUUUA motifs. Binds preferentially to the 5'-UUUU[AG]UUU-3' motif in vitro. With ZNF385A, binds the 3'-UTR of p53/TP53 mRNA to control their nuclear export induced by CDKN2A. Hence, may regulate p53/TP53 expression and mediate in part the CDKN2A anti-proliferative activity. May also bind with ZNF385A the CCNB1 mRNA.

Immunogen: Synthetic peptide within Human HuR / ELAVL1 aa 50-99 / 326.

Positive control: A549 cell lysate, Rat spleen tissue lysate, Rat heart tissue lysate, PC-12 cell lysate, Mouse heart tissue lysate, Hela cell lysate, human cervix cancer tissue, mouse heart tissue, rat brain tissue, human colon cancer tissue, human breast tissue, mouse testis tissue, HeLa.

Subcellular location: Cytoplasm. Nucleus.

Database links: SwissProt: Q15717 Human | P70372 Mouse | B5DF91 Rat

Recommended Dilutions:

WB	1:500-1:2,000
IHC-P	1:100-1:1,000
IP	1-2µg/sample
IF-Cell	1:100

Storage Buffer: 1*TBS (pH7.4), 0.05% 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.

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Technical:0086-571-89986345

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Images

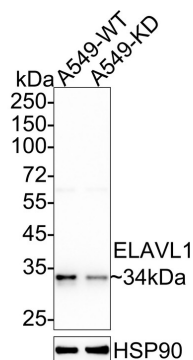


Fig1: Western blot analysis of HuR / ELAVL1 on different lysates with Rabbit anti-HuR / ELAVL1 antibody (ET1705-81) at 1/2,000 dilution.

Lane 1: A549-si NT cell lysate

Lane 2: A549-si HuR / ELAVL1 cell lysate

Lysates/proteins at 10 µg/Lane.

Predicted band size: 36 kDa

Observed band size: 34 kDa

Exposure time: 30 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 (ET1705-81) at 1/2,000 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.

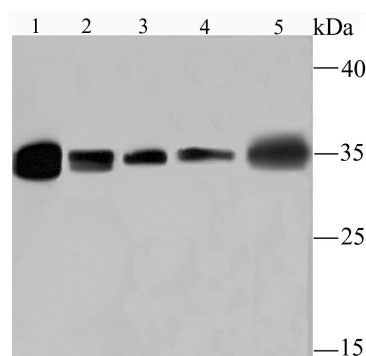


Fig2: Western blot analysis of HuR/ELAVL1 on different lysates using anti-HuR/ELAVL1 antibody at 1/1,000 dilution.

Positive control:

Lane 1: Rat spleen tissue lysates

Lane 2: Rat heart tissue lysates

Lane 3: PC-12 cell lysates

Lane 4: Mouse heart tissue lysates

Lane 5: HeLa cell lysates

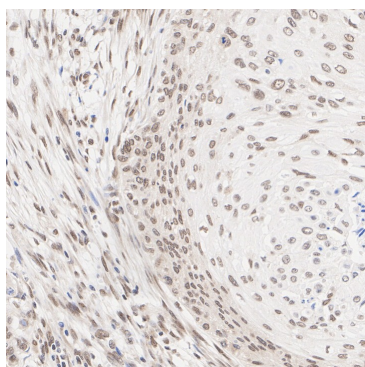


Fig3: Immunohistochemical analysis of paraffin-embedded human cervix cancer tissue with Rabbit anti-HuR / ELAVL1 antibody (ET1705-81) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 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 (ET1705-81) 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.

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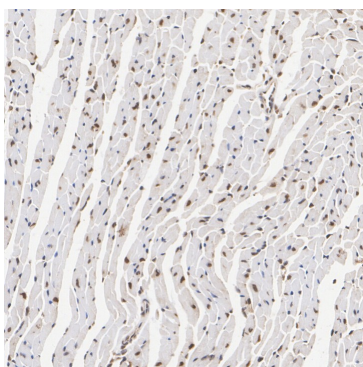


Fig4: Immunohistochemical analysis of paraffin-embedded mouse heart tissue with Rabbit anti-HuR / ELAVL1 antibody (ET1705-81) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 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 (ET1705-81) 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.

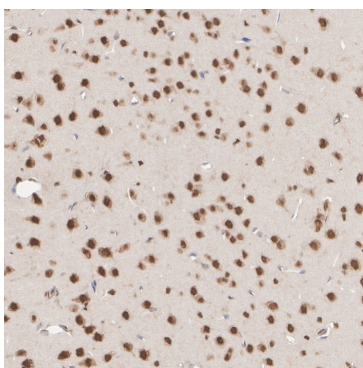


Fig5: Immunohistochemical analysis of paraffin-embedded rat brain tissue with Rabbit anti-HuR / ELAVL1 antibody (ET1705-81) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 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 (ET1705-81) 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.

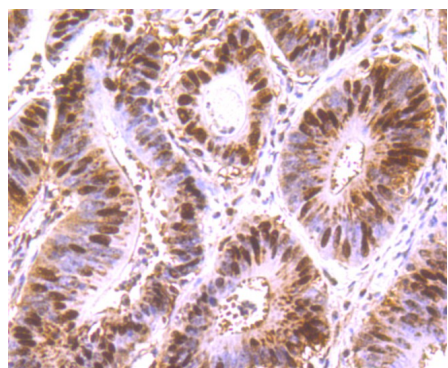


Fig6: Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-HuR/ELAVL1 antibody. Counter stained with hematoxylin.

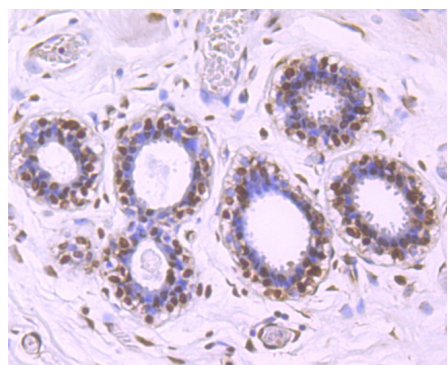


Fig7: Immunohistochemical analysis of paraffin-embedded human breast tissue using anti-HuR/ELAVL1 antibody. Counter stained with hematoxylin.

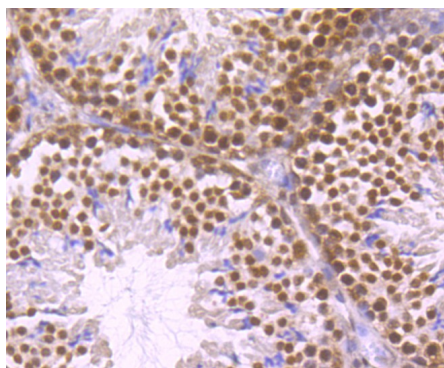
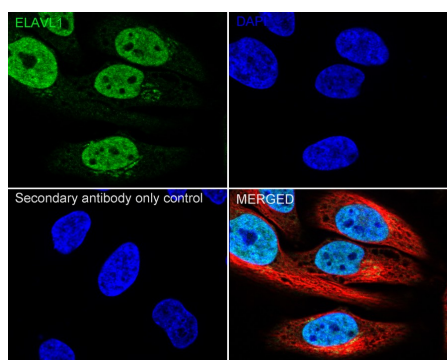


Fig8: Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti-HuR/ELAVL1 antibody. Counter stained with hematoxylin.

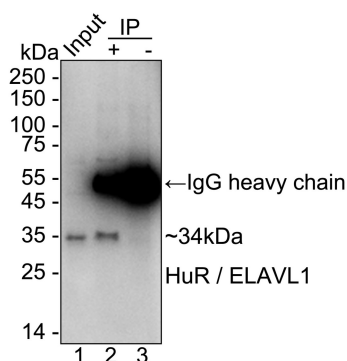
Fig9: Immunocytochemistry analysis of HeLa cells labeling HuR / ELAVL1 with Rabbit anti-HuR / ELAVL1 antibody (ET1705-81) at 1/100 dilution.



Cells were fixed in 4% paraformaldehyde for 15 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 15 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-HuR / ELAVL1 antibody (ET1705-81) 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 (HA601187, 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.

Fig10: HuR / ELAVL1 was immunoprecipitated from 0.2 mg HeLa cell lysate with ET1705-81 at 2 µg/10 µl beads. Western blot was performed from the immunoprecipitate using ET1705-81 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: ET1705-81 IP in HeLa cell lysate
Lane 3: Rabbit IgG instead of ET1705-81 in HeLa cell lysate

Blocking/Dilution buffer: 5% NFD/MBST
Exposure time: 1 minute; ECL: K1802

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

Background References

1. Mihailovich M et al. miR-17-92 fine-tunes MYC expression and function to ensure optimal B cell lymphoma growth. Nat Commun 6:8725 (2015).
2. Workman E et al. U1A regulates 3' processing of the survival motor neuron mRNA. J Biol Chem 289:3703-12 (2014).

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