

Anti-KAT7 Antibody [JM32-39]

ET1705-25



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IHC-P, IF-Cell
Molecular Wt:	Predicted band size: 71 kDa
Clone number:	JM32-39

Description: Component of the HBO1 complex which has a histone H4-specific acetyltransferase activity, a reduced activity toward histone H3 and is responsible for the bulk of histone H4 acetylation in vivo. Through chromatin acetylation it may regulate DNA replication and act as a coactivator of TP53-dependent transcription. Specifically represses AR-mediated transcription.

Immunogen: Recombinant protein within Human KAT7 aa 1-240 / 611.

Positive control: HeLa cell lysate, NIH/3T3 cell lysate, RAW264.7 cell lysate, mouse testis tissue lysate, rat testis tissue lysate, mouse testis tissue, rat testis tissue, mouse fallopian tubes tissue, HCT 116.

Subcellular location: Nucleus.

Database links: SwissProt: O95251 Human | Q5SVQ0 Mouse | Q810T5 Rat

Recommended Dilutions:

WB	1:1,000
IHC-P	1:200
IF-Cell	1:50

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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Orders:0086-571-88062880

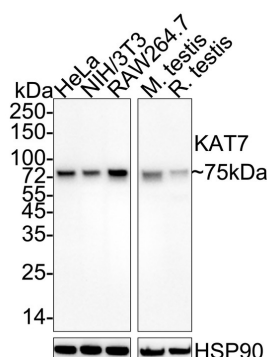
Technical:0086-571-89986345

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Images

Fig1: Western blot analysis of KAT7 on different lysates with Rabbit anti-KAT7 antibody (ET1705-25) at 1/1,000 dilution.



Lane 1: HeLa cell lysate (20 µg/Lane)

Lane 2: NIH/3T3 cell lysate (20 µg/Lane)

Lane 3: RAW264.7 cell lysate (20 µg/Lane)

Lane 4: Mouse testis tissue lysate (40 µg/Lane)

Lane 5: Rat testis tissue lysate (40 µg/Lane)

Predicted band size: 71 kDa

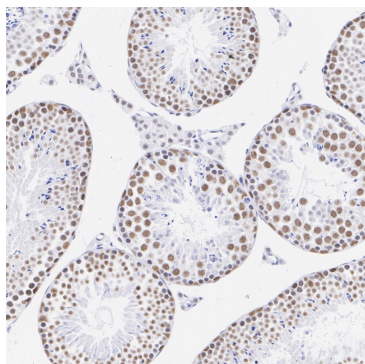
Observed band size: 75 kDa

Exposure time: 3 minutes;

4-20% SDS-PAGE gel.

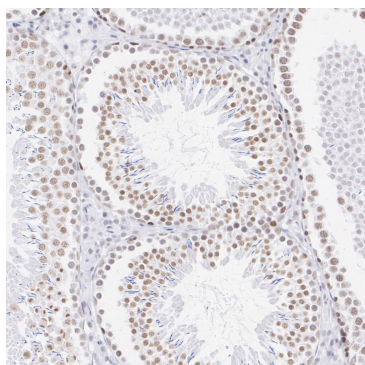
Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1705-25) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Immunohistochemical analysis of paraffin-embedded mouse testis tissue with Rabbit anti-KAT7 antibody (ET1705-25) at 1/200 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 (ET1705-25) at 1/200 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.

Fig3: Immunohistochemical analysis of paraffin-embedded rat testis tissue with Rabbit anti-KAT7 antibody (ET1705-25) at 1/200 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 (ET1705-25) at 1/200 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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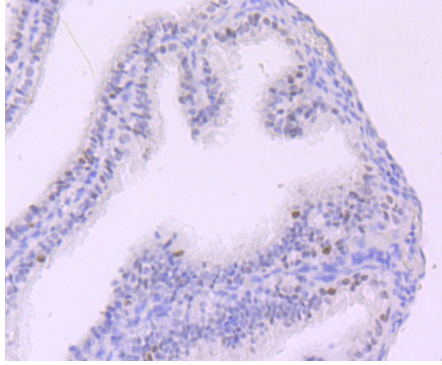
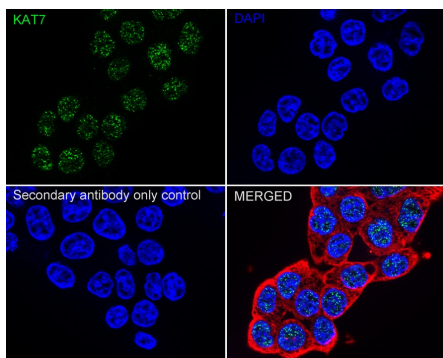


Fig4: Immunohistochemical analysis of paraffin-embedded mouse fallopian tubes tissue using anti-KAT7 antibody. Counter stained with hematoxylin.

Fig5: Immunocytochemistry analysis of HCT 116 cells labeling KAT7 with Rabbit anti-KAT7 antibody (ET1705-25) at 1/50 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-KAT7 antibody (ET1705-25) at 1/50 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.

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

Background References

1. Zou C et al. SCF(Fbxw15) mediates histone acetyltransferase binding to origin recognition complex (HBO1) ubiquitin-proteasomal degradation to regulate cell proliferation. *J Biol Chem* 288:6306-16 (2013).
2. Lalonde ME et al. Exchange of associated factors directs a switch in HBO1 acetyltransferase histone tail specificity. *Genes Dev* 27:2009-24 (2013).

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