

Anti-DOT1L Antibody [PSH01-57]

HA721700



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 165 kDa
Clone number:	PSH01-57

Description: Histone methyltransferase. Methylates 'Lys-79' of histone H3. Nucleosomes are preferred as substrate compared to free histones. In contrast to other lysine histone methyltransferases, it does not contain a SET domain, suggesting the existence of another mechanism for methylation of lysine residues of histones.

Immunogen: Recombinant protein within human DOT1/KMT4 aa 1- 500.

Positive control: K-562 cell lysate, THP-1 cell lysate, HeLa cell lysate, 293T cell lysate, human testis tissue.

Subcellular location: Nucleus.

Database links: SwissProt: Q8TEK3 Human

Recommended Dilutions:

WB	1:1,000
IHC-P	1:200

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

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

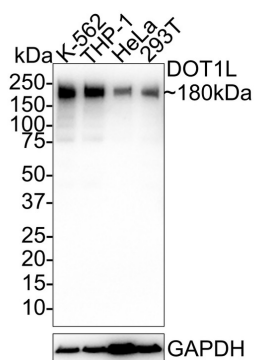
Fig1: Western blot analysis of DOT1L on different lysates with Rabbit anti-DOT1L antibody (HA721700) at 1/1,000 dilution.

Lane 1: K-562 cell lysate

Lane 2: THP-1 cell lysate

Lane 3: HeLa cell lysate

Lane 4: 293T cell lysate



Lysates/proteins at 40 µg/Lane.

Predicted band size: 165 kDa

Observed band size: 180 kDa

Exposure time: 1 minute 40 seconds;

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 (HA721700) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/100,000 dilution was used for 1 hour at room temperature.

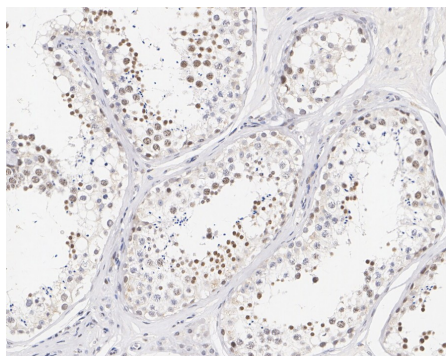


Fig2: Immunohistochemical analysis of paraffin-embedded human testis tissue with Rabbit anti-DOT1L antibody (HA721700) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) 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 (HA721700) 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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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Feng Q., Wang H., Ng H.H., Erdjument-Bromage H., Tempst P., Struhl K., Zhang Y. Methylation of H3-lysine 79 is mediated by a new family of HMTases without a SET domain. *Curr. Biol.* 12:1052-1058 (2002)
2. Min J., Feng Q., Li Z., Zhang Y., Xu R.-M. Structure of the catalytic domain of human DOT1L, a non-SET domain nucleosomal histone methyltransferase. *Cell* 112:711-723 (2003)

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