

Ultra-LEAF™ Purified anti-Histone Lysine Demethylase (NO66) Antibody

Catalog# / Size	844903 / 100 µg
Clone	8A7-G10
Regulatory Status	RUO
Other Names	Chromosome 14 Open Reading Frame 169, ROX, hsNO66, NO66, Nucleolar Protein 66, Ribosomal Oxygenase NO66, MAPJD
Isotype	Mouse IgG1, κ
Description	Histone Lysine Demethylase (NO66) is an oxygenase that can act as both a histone lysine demethylase and a ribosomal histidine hydroxylase. It specifically demethylates 'Lys-4' (H3K4me) and 'Lys-36' (H3K36me) of histone H3, thereby playing a central role in the histone code.

Product Details

Verified Reactivity	Human, Mouse, Rat
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Fusion protein consisting of NO66 protein fragment (aa 423-427) and Hepatitis B virus capsid protein.
Formulation	0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.01 EU/µg of the protein (<0.001 ng/µg of the protein) as determined by the LAL test.
Preparation	The Ultra-LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.
Concentration	The antibody is bottled at the concentration indicated on the vial, typically between 2 mg/mL and 3 mg/mL. Older lots may have also been bottled at 1 mg/mL. To obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. This Ultra-LEAF™ solution contains no preservative; handle under aseptic conditions.
Application	WB - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by Western blotting . For Western blotting, the suggested use of this reagent is 5.0 - 10 µg per ml. It is recommended that the reagent be titrated for optimal performance for each application.
RRID	AB_2566003 (BioLegend Cat. No. 844903)

Antigen Details

Structure	641 amino acids; 71 kD.
Distribution	Nucleus, nucleolus, and nucleoplasm.
Function	Preferentially demethylates trimethylated H3 'Lys-4' (H3K4me3) and monomethylated H3 'Lys-4' (H3K4me1) residues, while it has weaker activity for dimethylated H3 'Lys-36' (H3K36me2). Also catalyzes the hydroxylation of 60S ribosomal protein L8 on 'His-216' and acts as a regulator of osteoblast differentiation via its interaction with SP7/OSX by demethylating H3K4me and H3K36me, thereby inhibiting SP7/OSX-mediated promoter activation (by similarity). May also play a role in ribosome biogenesis and in the replication or remodeling of certain heterochromatic region. Participates in MYC-induced transcriptional activation.
Biology Area	Cell Biology, Neuroscience

Antigen References

1. Vasilatos S, et al. 2013. *Carcinogenesis* 34:1196.
2. Iwamori N, et al. 2011. *Biol. Reprod.* 84:1225.
3. Tao Y, et al. 2013. *J. Biol. Chem.* 288:16430.

Gene ID

[79697](#)

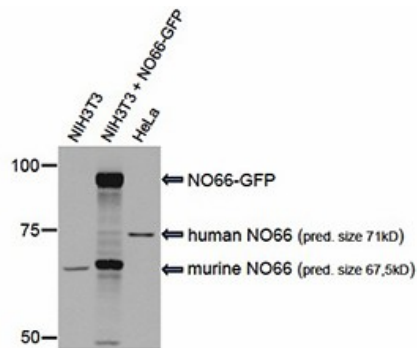
Related Protocols

[Western Blotting Protocol](#)

Other Formats

Purified anti-Histone Lysine Demethylase (NO66), Ultra-LEAF™ Purified anti-Histone Lysine Demethylase (NO66)

Product Data



70 µg of whole cell protein were separated by SDS-PAGE, transferred to a nitrocellulose membrane, and probed with αNO66 (clone 8A7-G10) diluted 1:100. The exposure time was 30 seconds.

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BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587