

# Product Datasheet

## Lysine (K)-specific Demethylase 4A/KDM4A/JMJD2A Antibody - BSA Free NBP1-87855

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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### Publications: 2

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Updated 12/2/2025 v.20.1

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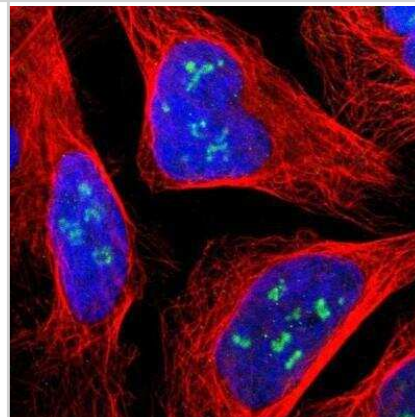


**NBP1-87855****Lysine (K)-specific Demethylase 4A/KDM4A/JMJD2A Antibody - BSA Free**

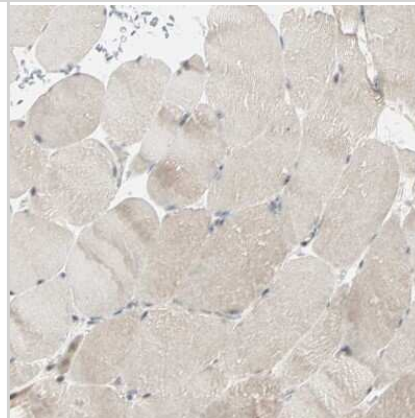
<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Affinity purified
<b>Buffer</b>	PBS (pH 7.2) and 40% Glycerol
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Rabbit Lysine (K)-specific Demethylase 4A/KDM4A/JMJD2A Antibody - BSA Free (NBP1-87855) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Lysine (K)-specific Demethylase 4A/KDM4A/JMJD2A Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	9682
<b>Gene Symbol</b>	KDM4A
<b>Species</b>	Human, Mouse
<b>Reactivity Notes</b>	Immunogen displays the following percentage of sequence identity for non-tested species: Rat (88%). Mouse reactivity reported in the scientific literature (PMID: 25336657).
<b>Immunogen</b>	This antibody was developed against Recombinant Protein corresponding to amino acids: DVFVRKFQPERYKLWKAGKDNTVIDHTLPTPEAAEFLKESELPPRAGNEEECP EEDMEGVEDGEEGLKTSLAKHRIGTKRHRVCLEIPQEVSQSELFPKEDLSSE QYEMTEC
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:200 - 1:500
<b>Application Notes</b>	WB reported in scientific literature (PMID: 25336657). For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF, Fixation Permeabilization: Use PFA/Triton X-100.

## Images

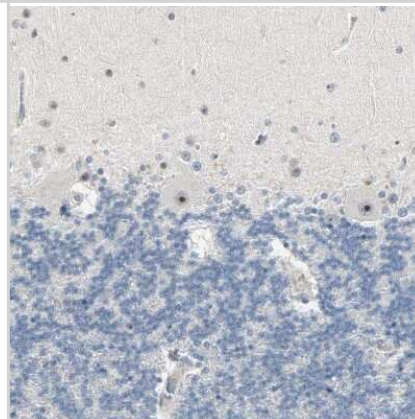
Immunocytochemistry/Immunofluorescence: Lysine (K)-specific Demethylase 4A/KDM4A/JMJD2A Antibody [NBP1-87855] - Staining of human cell line U-2 OS shows positivity in nucleoli.



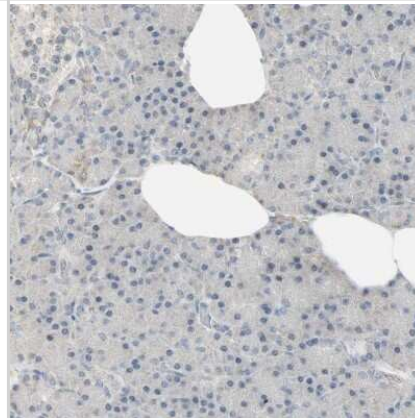
Immunohistochemistry-Paraffin: Lysine (K)-specific Demethylase 4A/KDM4A/JMJD2A Antibody [NBP1-87855] - Staining of human skeletal muscle shows no positivity in myocytes as expected.



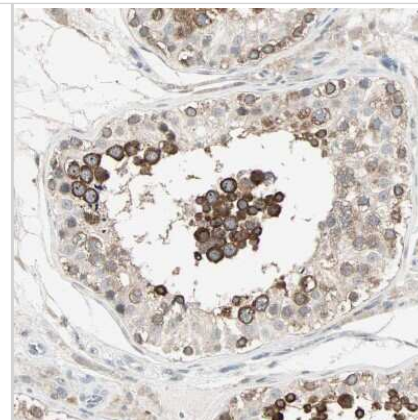
Immunohistochemistry-Paraffin: Lysine (K)-specific Demethylase 4A/KDM4A/JMJD2A Antibody [NBP1-87855] - Staining of human cerebellum shows strong positivity in nucleoli in Purkinje cells.



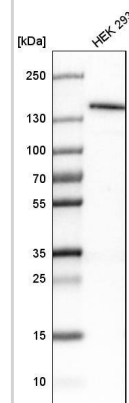
Immunohistochemistry-Paraffin: Lysine (K)-specific Demethylase 4A/KDM4A/JMJD2A Antibody [NBP1-87855] - Staining of human pancreas shows no positivity in exocrine glandular cells as expected.



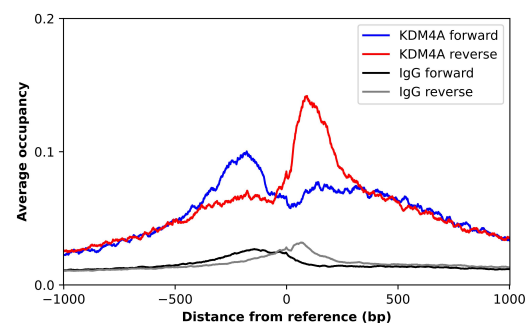
Immunohistochemistry-Paraffin: Lysine (K)-specific Demethylase 4A/KDM4A/JMJD2A Antibody [NBP1-87855] - Staining of human testis shows strong cytoplasmic positivity in cells in seminiferous ducts.



Analysis in human cell line HEK 293.



ChIP-Exo-Seq composite graph for Anti-KDM4A (NBP1-87855) tested in K562 cells. Strand-specific reads (blue: forward, red: reverse) and IgG controls (black: forward, grey: reverse) are plotted against the distance from a composite set of reference binding sites. The antibody exhibits robust target enrichment compared to a non-specific IgG control and precisely reveals its structural organization around the binding site. Data generated by Prof. B. F. Pugh's Lab at Cornell University.



## Publications

Dikopoltsev E, Foltyn VN, Zehl M et al. FBXO22 Protein Is Required for Optimal Synthesis of the N-Methyl-d-Aspartate (NMDA) Receptor Coagonist d-Serine. *J Biol Chem* 2014-12-05 [PMID: 25336657] (WB, Mouse)

Verrier L, Escaffit F, Chailleux C et al. A New Isoform of the Histone Demethylase JMJD2A/KDM4A Is Required for Skeletal Muscle Differentiation. *PLoS Genet* 2011-06-01 [PMID: 21694756]



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### **Products Related to NBP1-87855**

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NBP1-87855PEP	Lysine (K)-specific Demethylase 4A/KDM4A/JMJD2A Recombinant Protein Antigen
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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