

# Product Datasheet

## ALKBH5 Antibody - BSA Free

### NBP1-82188

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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**NBP1-82188**

ALKBH5 Antibody - BSA Free

**Product Information**

<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>	Immunogen affinity purified
<b>Buffer</b>	PBS (pH 7.2) and 40% Glycerol
<b>Target Molecular Weight</b>	51 kDa

**Product Description**

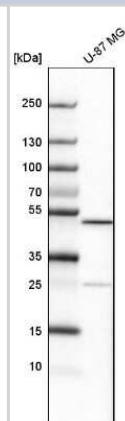
<b>Host</b>	Rabbit
<b>Gene ID</b>	54890
<b>Gene Symbol</b>	ALKBH5
<b>Species</b>	Human, Mouse
<b>Reactivity Notes</b>	Use in Mouse reported in scientific literature (PMID:32329191).
<b>Immunogen</b>	This antibody was developed against Recombinant Protein corresponding to amino acids: EKLKSMTSRDNYKAGSREAAAAAAAAVAAAAAAAAAEPYPVSGAKRKYQED SDPERSDYEEQQLQKEEEARKVKSGIRQMRLFSQDECAKIEARIDEVVSRAEK GLYNEHTVD

**Product Application Details**

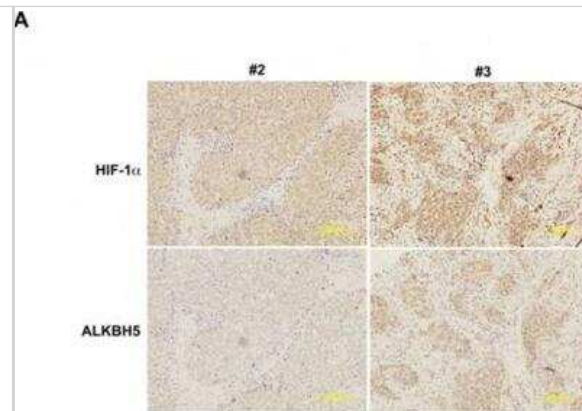
<b>Applications</b>	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Knockdown Validated
<b>Recommended Dilutions</b>	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:500 - 1:1000, Immunohistochemistry-Paraffin 1:500 - 1:1000, Knockdown Validated
<b>Application Notes</b>	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

**Images**

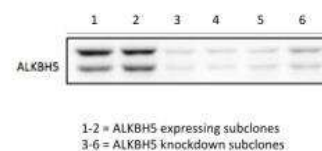
Western Blot: ALKBH5 Antibody [NBP1-82188] - Analysis in human cell line U-87 MG.



**Immunohistochemistry-Paraffin: ALKBH5 Antibody [NBP1-82188] -**  
**Immunohistochemical analysis of human breast cancer biopsies.**  
 Immunohistochemistry was performed on breast cancer biopsies using ALKBH5 and HIF-1a antibodies. Representative negative and positive staining (biopsies from patients #2 and #3, respectively) are shown. Scale bar: 500 um. Image collected and cropped by CiteAb from the following publication ([oncotarget.com/article/11743/text/](https://oncotarget.com/article/11743/text/)), licensed under a CC-BY license.



**Western Blot: ALKBH5 Antibody [NBP1-82188] - Analysis of ALKBH5 in**  
**MDA-MB-231 human breast cancer subclones using anti-ALKBH5**  
 antibody. Image from verified customer review.



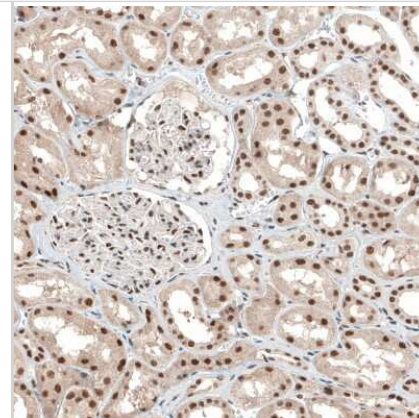
**Immunohistochemistry-Paraffin: ALKBH5 Antibody [NBP1-82188] -**  
**Staining of human liver shows weak to moderate nuclear positivity in**  
 hepatocytes.



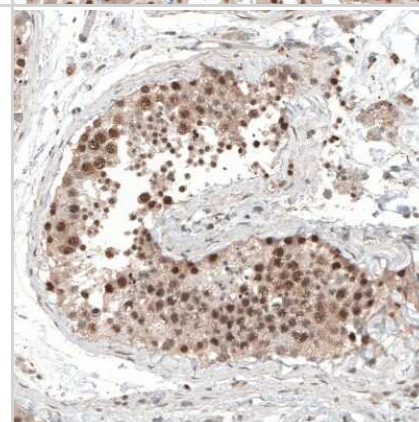
**Immunohistochemistry-Paraffin: ALKBH5 Antibody [NBP1-82188] -**  
**Staining of human fallopian tube shows moderate to strong nuclear**  
 positivity in glandular cells.



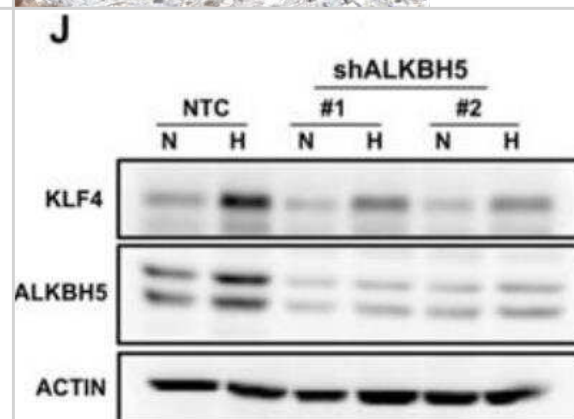
Immunohistochemistry-Paraffin: ALKBH5 Antibody [NBP1-82188] - Staining of human kidney shows nuclear positivity.



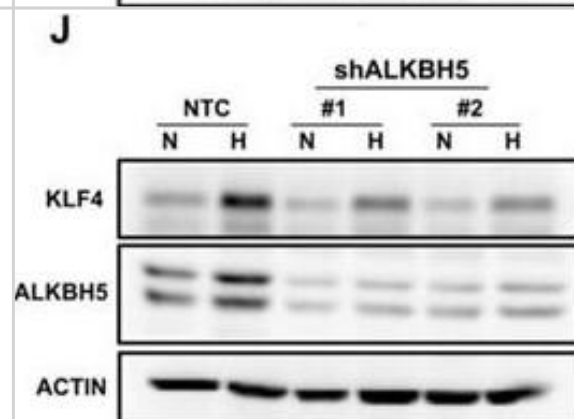
Immunohistochemistry-Paraffin: ALKBH5 Antibody [NBP1-82188] - Staining of human testis shows moderate to strong nuclear positivity in cells in seminiferous ducts.



Western Blot: ALKBH5 Antibody [NBP1-82188] - ZNF217 and ALKBH5 regulate NANOG and KLF4 expression via modulation of m6A levels. MCF-7 subclones were exposed to 20% or 1% O<sub>2</sub> for 48 h and immunoblot assays were performed. Image collected and cropped by CiteAb from the following publication ([oncotarget.com/article/11743/text/](https://www.oncotarget.com/article/11743/text/)), licensed under a CC-BY license.



Western Blot: ALKBH5 Antibody [NBP1-82188] - ZNF217 & ALKBH5 regulate NANOG & KLF4 expression via modulation of m6A levels. J. MCF-7 subclones exposed to 20% or 1% O<sub>2</sub> for 48 h & immunoblot assays performed. Image collected & cropped by CiteAb from the following publication (<https://www.oncotarget.com/lookup/doi/10.18632/oncotarget.11743>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Malovic E, Ealy A, Miller C, Jang A et Al. Epitranscriptomic reader YTHDF2 regulates SEK1(MAP2K4)-JNK-cJUN inflammatory signaling in astrocytes during neurotoxic stress iScience 2024-09-10 [PMID: 39252959]

Pianka ST, Li T, Prins TJ et Al. D-2-HG Inhibits IDH1mut Glioma Growth via FTO Inhibition and Resultant m6A Hypermethylation Cancer Res Commun 2024-03-01 [PMID: 38445960]

Cieřla M, Ngoc PCT, Muthukumar S et al. m6A-driven SF3B1 translation control steers splicing to direct genome integrity and leukemogenesis Molecular cell 2023-03-08 [PMID: 36944332] (WB, Human)

Hesser CR, Walsh D YTHDF2 Is Downregulated in Response to Host Shutoff Induced by DNA Virus Infection and Regulates Interferon-Stimulated Gene Expression Journal of virology 2023-03-30 [PMID: 36916936]

Su X, Shen Y, Jin Y Et al. Aging-Associated Differences in Epitranscriptomic m6A Regulation in Response to Acute Cardiac Ischemia/Reperfusion Injury in Female Mice Frontiers in pharmacology 2021-08-03 [PMID: 34413770] (WB, Mouse)

Querido E, Sfeir A, Chartrand P ALKBH5 inhibited cell proliferation and sensitized bladder cancer cells to cisplatin by m6A-CK2 alpha mediated glycolysis STAR Protoc 2020-10-01 [PMID: 33111129] (IHC-P, WB, Human)

The m6A Demethylase ALKBH5 Controls Trophoblast Invasion at the Maternal-Fetal Interface by Regulating the Stability of CYR61 mRNA Li X, Jin F, Wang B et al. Theranostics. [PMID: 31281518] (WB, IF/IHC, Human)

Jiang Y, Wan Y, Gong M et al. RNA demethylase ALKBH5 promotes ovarian carcinogenesis in a simulated tumour microenvironment through stimulating NF-kappa B pathway J. Cell. Mol. Med. 2020-04-24 [PMID: 32329191] (IHC-P, IF/IHC, Mouse)

Zhang C, Zhi WI, Lu H et al. Hypoxia-inducible factors regulate pluripotency factor expression by ZNF217- and ALKBH5-mediated modulation of RNA methylation in breast cancer cells. Oncotarget. 2016-08-31 [PMID: 27590511] (WB, IHC-P, Human)

Zhang C, Samanta D, Lu H et al. Hypoxia induces the breast cancer stem cell phenotype by HIF-dependent and ALKBH5-mediated m6A-demethylation of NANOG mRNA. Proc Natl Acad Sci U S A. 2016-03-21 [PMID: 27001847] (WB, Human)





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### **Products Related to NBP1-82188**

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NBP1-82188PEP	ALKBH5 Recombinant Protein Antigen
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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