

# 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.

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

**Reviews: 1 Publications: 11**

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/NBP1-82188](http://www.novusbio.com/NBP1-82188)

Updated 12/2/2025 v.20.1

**Earn rewards for product  
reviews and publications.**

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/NBP1-82188](http://www.novusbio.com/reviews/destination/NBP1-82188)



**NBP1-82188**

ALKBH5 Antibody - BSA Free

| Product Information     |  |
|-------------------------|--|
| Unit Size               | 0.1 ml   |
| Concentration           | Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services. |
| Storage                 | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.                           |
| Clonality               | Polyclonal   |
| Preservative            | 0.02% Sodium Azide   |
| Isotype                 | IgG  |
| Purity                  | Affinity purified  |
| Buffer                  | PBS (pH 7.2) and 40% Glycerol  |
| Target Molecular Weight | 51 kDa   |

| Product Description |  |
|---------------------|--|
| Description         | Novus Biologicals Rabbit ALKBH5 Antibody - BSA Free (NBP1-82188) is a polyclonal antibody validated for use in IHC, WB and Simple Western. Anti-ALKBH5 Antibody: Cited in 10 publications. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| Host                | Rabbit   |
| Gene ID             | 54890  |
| Gene Symbol         | ALKBH5   |
| Species             | Human, Mouse   |
| Reactivity Notes    | Use in Mouse reported in scientific literature (PMID:32329191).  |
| Immunogen           | This antibody was developed against Recombinant Protein corresponding to amino acids:<br>EKLKSM TSRDNYKAGSREAAAAAAAAVAAAAAAAAAEPYPVSGAKRKYQED<br>SDPERSDYEEQQLQKEEEARKVKSGIRQMRLFSQDECAKIEARIDEVVSRAEK<br>GLYNEHTVD  |

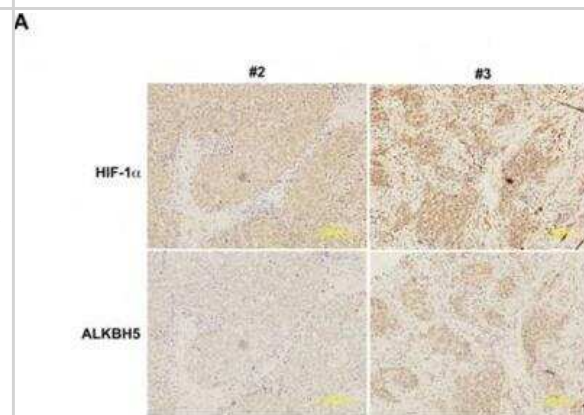
| Product Application Details |   |
|-----------------------------|---|
| Applications                | Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunohistochemistry, Knockdown Validated  |
| Recommended Dilutions       | Western Blot 0.04-0.4 ug/ml, Simple Western 1:200, Immunohistochemistry 1:500 - 1:1000, Immunohistochemistry-Paraffin 1:500 - 1:1000, Knockdown Validated |
| Application Notes           | For IHC-Paraffin, HIER pH 6 retrieval is recommended.   |



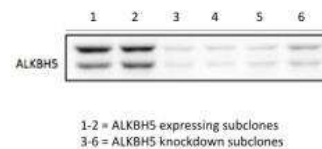
## Images

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.



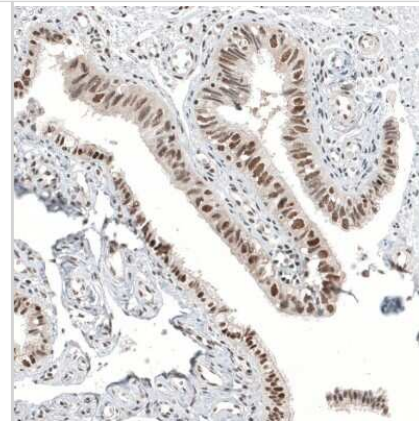
Western Blot: ALKBH5 Antibody [NBP1-82188] - Analysis of ALKBH5 in MDA-MB-231 human breast cancer subclones using anti-ALKBH5 antibody. Image from verified customer review.



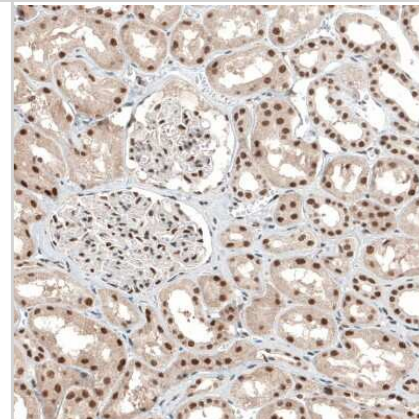
Immunohistochemistry-Paraffin: ALKBH5 Antibody [NBP1-82188] - Staining of human liver shows weak to moderate nuclear positivity in hepatocytes.



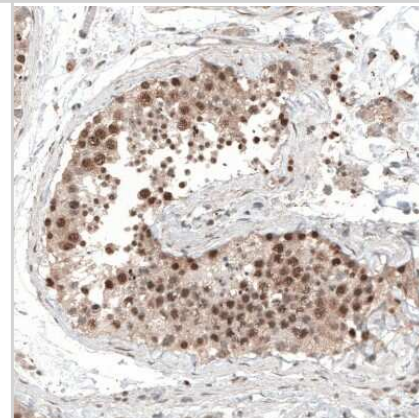
Immunohistochemistry-Paraffin: ALKBH5 Antibody [NBP1-82188] - Staining of human fallopian tube shows moderate to strong nuclear positivity in glandular cells.



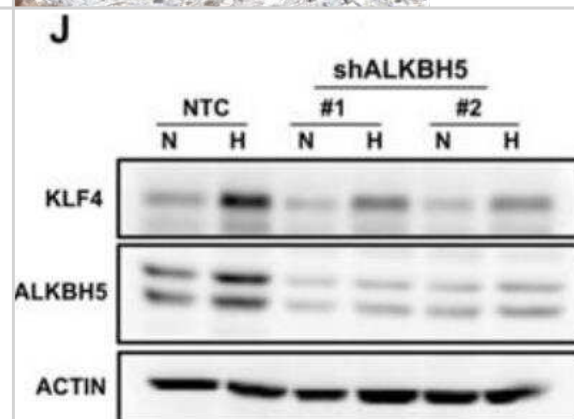
Immunohistochemistry-Paraffin: ALKBH5 Antibody [NBP1-82188] - Staining of human kidney shows nuclear positivity.



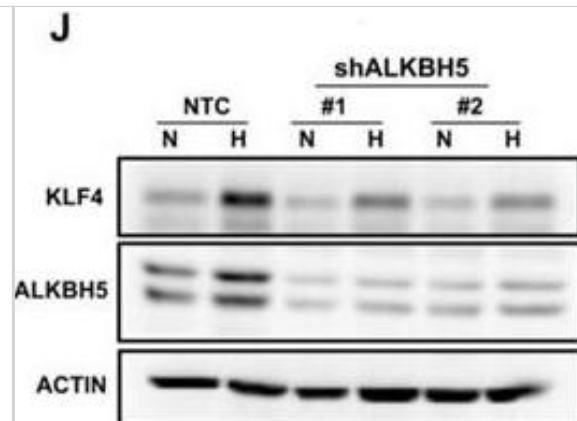
Immunohistochemistry-Paraffin: ALKBH5 Antibody [NBP1-82188] - Staining of human testis shows moderate to strong nuclear positivity in cells in seminiferous ducts.



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/](http://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

Wang K, Wang K ALKBH5 Promotes Breast Cancer Stemness Through Regulating Wnt/ $\beta$ -Catenin Signaling Breast Cancer : Targets and Therapy 2025-06-06 [PMID: 40496172]

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]

Cie?la 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)



### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

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

---

|               |   |
|---------------|---|
| NBP1-82188PEP | ALKBH5 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                          |

---

### **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.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/NBP1-82188](http://www.novusbio.com/reviews/submit/NBP1-82188)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)

