

# Product Datasheet

## METTL14 Antibody - BSA Free NBP1-81392

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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**NBP1-81392**

METTL14 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

**Product Description**

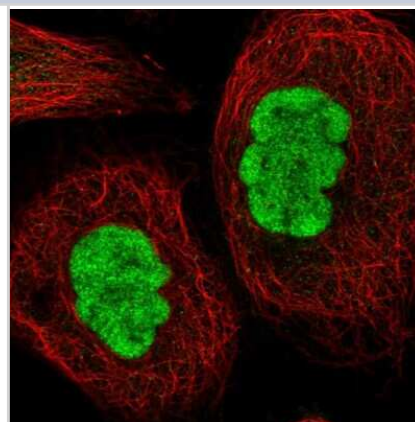
<b>Host</b>	Rabbit
<b>Gene ID</b>	57721
<b>Gene Symbol</b>	METTL14
<b>Species</b>	Human
<b>Immunogen</b>	This antibody was developed against Recombinant Protein corresponding to amino acids: RSWNMDSRLQEIRERQKLRRQLLAQQLGAESADSIGAVLNSKDEQREIAETRE TCRASYDTSAPNAKRKYLDGETDEDKMEEYKDELEMQQDEE

**Product Application Details**

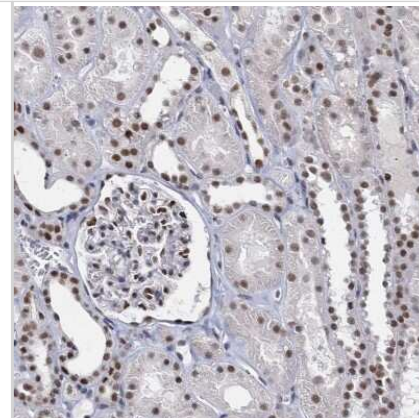
<b>Applications</b>	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Western Blot Reported scientific literature (PMID:26458103), Simple Western 1:20, Immunohistochemistry 1:1000 - 1:2500, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:1000 - 1:2500
<b>Application Notes</b>	ICC/IF Fixation Permeabilization: Use PFA/Triton X-100. IHC-Paraffin HIER pH6 retrieval is recommended. Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See <a href="#">Simple Western Antibody Database</a> for Simple Western validation: Tested in RT-4, NIH-3T3, separated by Size, antibody dilution of 1:20, apparent MW was 64 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.

**Images**

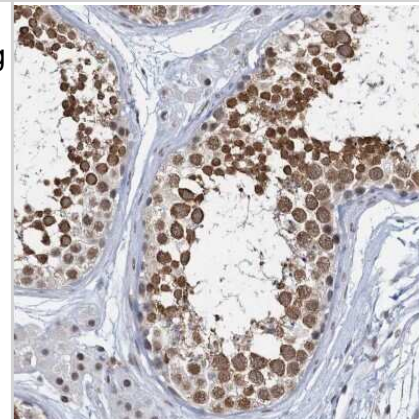
Immunocytochemistry/Immunofluorescence: METTL14 Antibody [NBP1-81392] - Staining of human cell line A-431 shows localization to nucleoplasm. Antibody staining is shown in green.



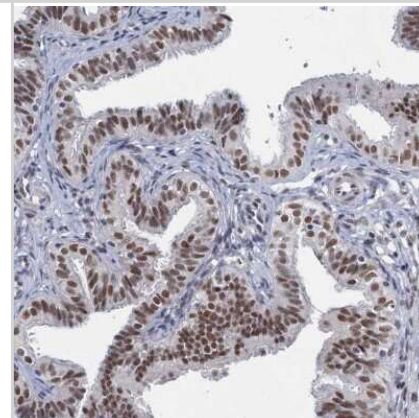
Immunohistochemistry-Paraffin: METTL14 Antibody [NBP1-81392] - Staining of human kidney shows moderate to strong nuclear positivity in glomeruli and cells in tubules.



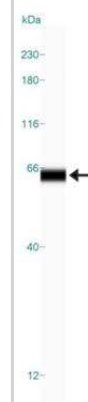
Immunohistochemistry-Paraffin: METTL14 Antibody [NBP1-81392] - Immunohistochemical staining of human testis shows moderate to strong nuclear positivity in cells in seminiferous ducts.



Immunohistochemistry-Paraffin: METTL14 Antibody [NBP1-81392] - Staining of human fallopian tube shows strong nuclear positivity in glandular cells.



Simple Western: METTL14 Antibody [NBP1-81392] - Simple Western lane view shows a specific band for METTL14 in 0.2 mg/ml of NIH-3T3 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



## Publications

Foucault, L;Capeliez, T;Angonin, D;Lentini, C;Bezin, L;Heinrich, C;Parras, C;Donega, V;Marcy, G;Raineteau, O; Neonatal brain injury unravels transcriptional and signaling changes underlying the reactivation of cortical progenitors Cell reports 2024-02-12 [PMID: 38349790]

Xiao L, De Jesus DF, Ju CW, Wei JB et Al. m(6)A mRNA methylation in brown fat regulates systemic insulin sensitivity via an inter-organ prostaglandin signaling axis independent of UCP1 Cell Metab 2024-09-10 [PMID: 39255799]

Zhu Y, Zhang Y, Jiang Y et Al. Retinoic Acid Upregulates METTL14 Expression and the m(6)A Modification Level to Inhibit the Proliferation of Embryonic Palate Mesenchymal Cells in Cleft Palate Mice Int J Mol Sci 2024-04-20 [PMID: 38674123]

Jiang C, Trudeau S. J, et al. CRISPR/Cas9 Screens Reveal Multiple Layers of B cell CD40 Regulation. Cell Rep 2019 -07-30 [PMID: 31365872] (WB, Human)

Jian D, Wang Y, Jian L et al. METTL14 aggravates endothelial inflammation and atherosclerosis by increasing FOXO1 N6-methyladenosine modifications Theranostics 2020-07-11 [PMID: 32802173] (Human)

Winkler R, Gillis E, Lasman L et al. m6A modification controls the innate immune response to infection by targeting type I interferons Nat. Immunol. 2018-12-17 [PMID: 30559377] (WB, Human)

Zhou J, Wan J, Gao X et al. Dynamic m6A mRNA methylation directs translational control of heat shock response. Nature. 2015-10-12 [PMID: 26458103] (ICC/IF, WB, Human)

Liu N, Dai Q, Zheng G et al. N6-methyladenosine-dependent RNA structural switches regulate RNA-protein interactions. Nature 2015-02-26 [PMID: 25719671] (WB, Human)

Wang Y, Li Y, Toth JI et al. N6-methyladenosine modification destabilizes developmental regulators in embryonic stem cells. Nat Cell Biol 2014-02-01 [PMID: 24394384]

Liu J, Yue Y, Han D et al. A METTL3-METTL14 complex mediates mammalian nuclear RNA N6-adenosine methylation. Nat Chem Biol 2014-02-01 [PMID: 24316715]





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### **Products Related to NBP1-81392**

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NBP1-81392PEP	METTL14 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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