Product Datasheet

PAX8 Antibody - BSA Free
NBP1-32440

Unit Size: 100 ul

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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Reviews: 1 Publications: 16

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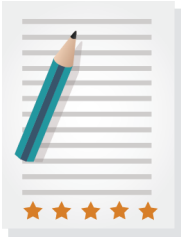
Updated 2/21/2025 v.20.1



NBP1-32440

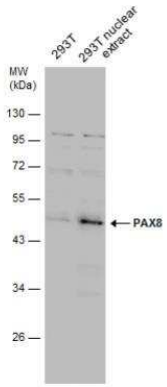
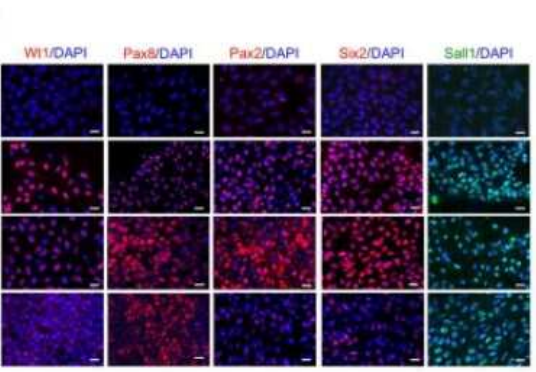
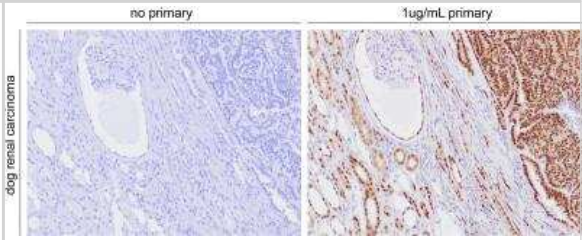
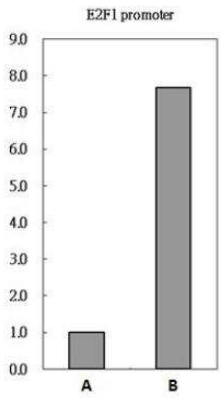
PAX8 Antibody - BSA Free

Product Information	
Unit Size	100 ul
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.025% Proclin 300
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	PBS, 20% Glycerol
Target Molecular Weight	48 kDa

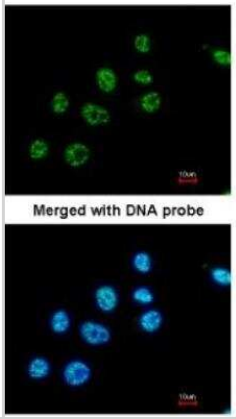
Product Description	
Host	Rabbit
Gene ID	7849
Gene Symbol	PAX8
Species	Human, Mouse, Rat, Canine
Reactivity Notes	Xenopus laevis (91%).
Immunogen	Recombinant protein encompassing a sequence within the center region of human PAX8. The exact sequence is proprietary.

Product Application Details	
Applications	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP), Single Cell Western
Recommended Dilutions	Western Blot 1:5000-1:20000, Simple Western 1:10, Immunohistochemistry 1:100 - 1:1000, Immunocytochemistry/ Immunofluorescence 1:100 - 1:1000, Immunoprecipitation 1:500 - 1:1000, Immunohistochemistry-Paraffin 1:100 - 1:1000, Chromatin Immunoprecipitation (ChIP), Single Cell Western 50 ug/mL
Application Notes	In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See Simple Western Antibody Database for Simple Western validation: Tested in Hek293 lysate 0.5 mg/mL, separated by Size, antibody dilution of 1:10, apparent MW was 60 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue. SCW is validated using 786-O cells.

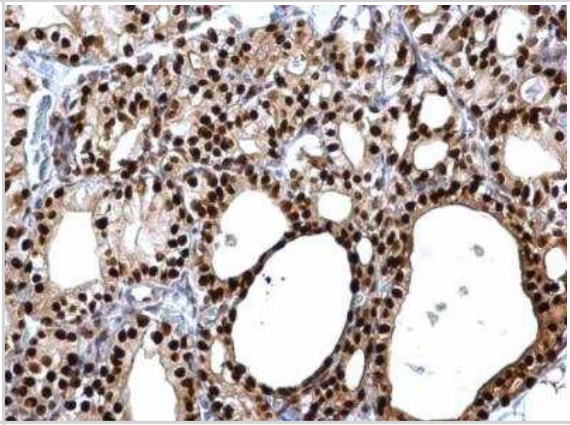
Images

Western Blot: PAX8 Antibody [NBP1-32440] - 293T whole cell and nuclear extracts (30 ug) were separated by 10% SDS-PAGE, and the membrane was blotted with PAX8 antibody diluted at 1:1000.	
Immunocytochemistry/Immunofluorescence: PAX8 Antibody [NBP1-32440] - Stepwise differentiation of human iPSCs towards renal progenitor cells (RPCs). Schematic description of the two-stage protocol applied to iPSC-renal commitment. Immunofluorescence of iPSCs (derived from retroviral transfected dermal fibroblasts) exposed to differentiating media. Pictured are the IM and MM marker expressions as Wt1, Pax8, Pax2, Six2 and Sall1. Image collected and cropped by CiteAb from the following publication (https://www.nature.com/articles/srep08826), licensed under a CC-BY license.	
Immunohistochemistry-Paraffin: PAX8 Antibody [NBP1-32440] - Pax8 immunoreactivity in canine renal carcinoma. Primary antibody incubated with tissue for 1h at room temperature. IHC-P image submitted by a verified customer review.	
Chromatin Immunoprecipitation: PAX8 Antibody [NBP1-32440] - Sample: 293T whole cell lysate/extract A. 5 ug preimmune rabbit IgG, B. 5 ug of PAX8 antibody The precipitated DNA was detected by PCR with primer set targeting to E2F1 promoter.	

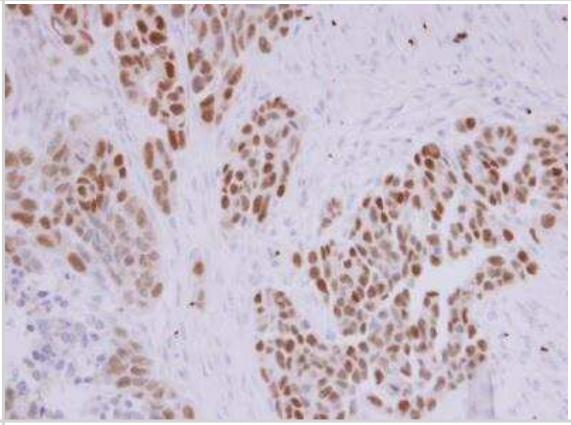
Immunocytochemistry/Immunofluorescence: PAX8 Antibody [NBP1-32440] - Paraformaldehyde-fixed A549, using antibody at 1:200 dilution.



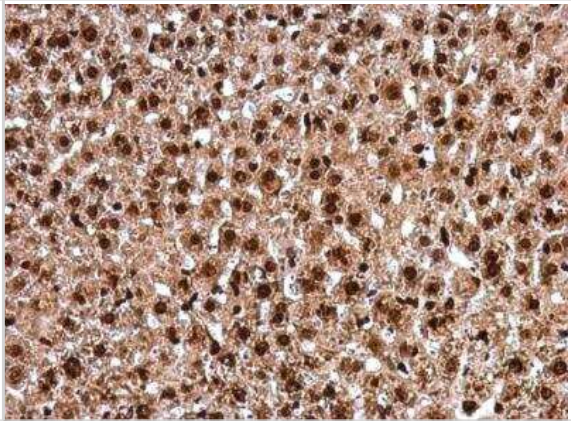
Immunohistochemistry-Paraffin: PAX8 Antibody [NBP1-32440] - Rat thyroid gland. PAX8 antibody dilution: 1:500. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



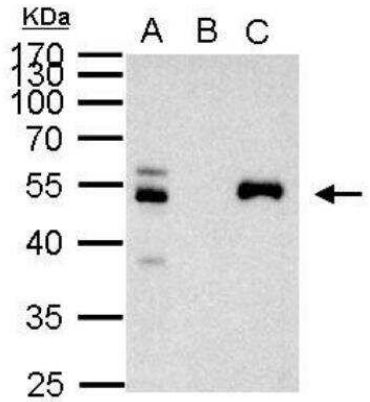
Immunohistochemistry-Paraffin: PAX8 Antibody [NBP1-32440] - DLD1 xenograft . PAX8 antibody diluted at 1:500. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



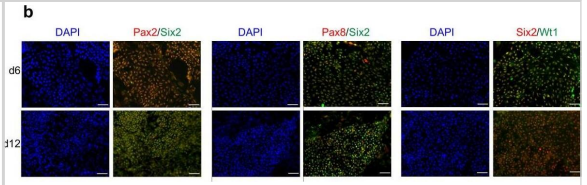
Immunohistochemistry-Paraffin: PAX8 Antibody [NBP1-32440] - Mouse liver. PAX8 antibody diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



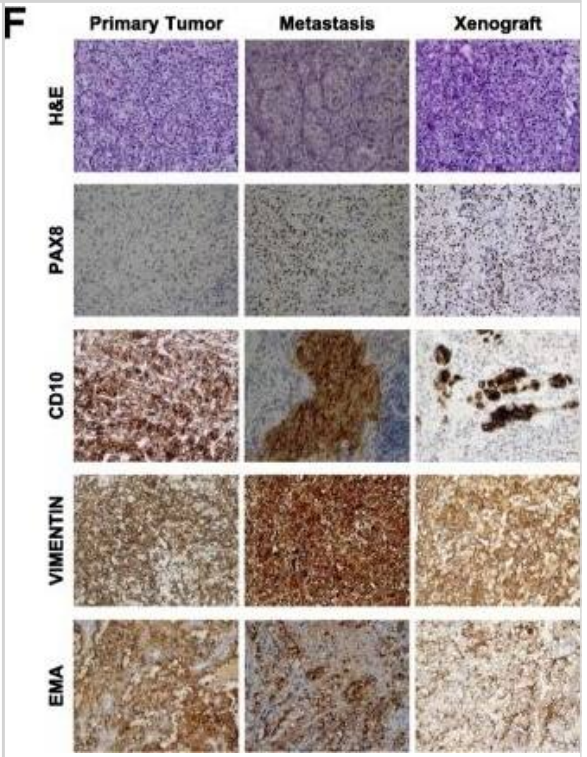
Immunoprecipitation: PAX8 Antibody [NBP1-32440] - Sample: 1000 ug 293T whole cell lysate/extract A. 40 ug 293T whole cell lysate/extract, B. Control with 2 ug of preimmune rabbit IgG, C. Immunoprecipitation of PAX8 protein by 2 ug of PAX8 antibody 10% SDS-PAGE gel.

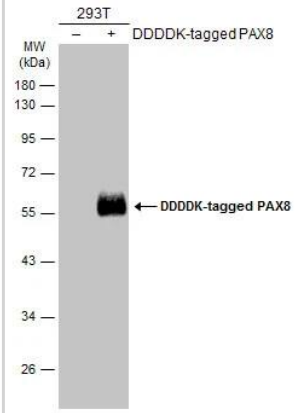
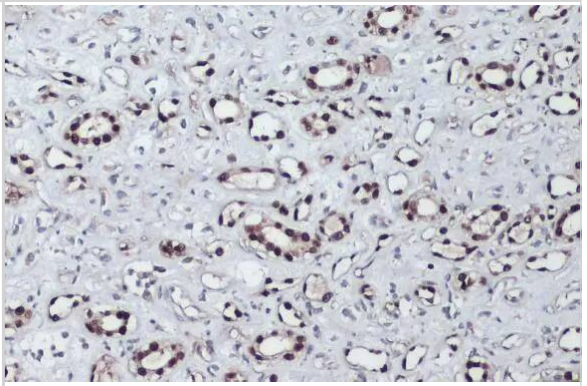
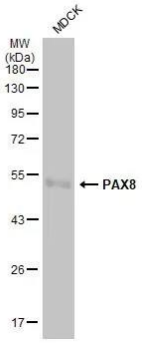


Immunocytochemistry/ Immunofluorescence: PAX8 Antibody [NBP1-32440] - Differentiation of human iPSC clone IV towards renal commitment.(a) Representative immunofluorescence images of co-staining for Lhx1/Osr1 up to day 6. (b) Images of co-staining of Pax2/Six2, Pax8/Six2 & Six2/Wt1 from day 6 to 12. (c) Expression of renal progenitor markers such as CD24, Claudin1 & GGT1 from day 0 to 19. Nuclei are stained with DAPI (blue). Scale bars: 50 µm (a, b), 20 µm (c). (d) Gene expression analysis for renal progenitor markers at different points in time. Image collected & cropped by CiteAb from the following publication (https://www.nature.com/articles/srep08826), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Immunohistochemistry-Paraffin: PAX8 Antibody [NBP1-32440] - PDX model establishment from ccRCC injection. a Hematoxylin & Eosin staining of human tumor engrafted in murine models. A epresentative image of kidney PDX reported. Microscope Nikon Eclipse E1000 10X & 20X (b) Graph reporting % of patients who engrafted when orthotopically injected in mice & distributed following grading (3 G1; 7 G2; 13 G3; 7 G4). Eight mice for each patient injected & all 18 tumors on 30 which evaluated as engrafted developed tumor masses on ≥ of 6 mice. Tumors declared unable to engraft did not produce, at all, tumor masses. c Representative images (1 × 0.63) of PDXs excised 90 days after injection by Stereomicroscope (Olympus SZX10,XCX50). One representative image for G2, G3 & G4 types reported. d Representative images (1 × 0.63 & 1.25) of aberrant neo-angiogenesis formation in PDXs by Stereomicroscope (Olympus SZX10, XCX50 camera). e Hematoxylin & Eosin staining of PDXs versus parental primary patients. One representative tumor for each grade (G2, G3, G4) reported. Staining executed on OCT frozen samples. f Hematoxylin & Eosin & anti-PAX8, CD10, Vimentin & EMA staining reported on formalin-fixed & paraffin-embedded parental primary, metastatic tissues & PDXs. Primary, metastatic & PDX tissues obtained & shown from one representative patient. Microscope Nikon Eclipse 55i, magnification 20×. g Histogram showing number of engrafting tumor populations evaluated over 30 injected patient samples & correlated w/ patient recurrence frequency calculated as development of metastases after surgery. Orange color represents recurrent (n = 7) & metastatic (n = 3) patients in engrafted group (n = 18). Pink color represents recurrent patients (n = 2) in non-engrafted group (n = 12) for a total of 30 injected samples Image collected & cropped by CiteAb from following publication (https://pubmed.ncbi.nlm.nih.gov/30185225), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: PAX8 Antibody [NBP1-32440] - Non-transfected (-) and transfected (+) 293T whole cell extracts (30 ug) were separated by 10% SDS-PAGE, and the membrane was blotted with PAX8 antibody (NBP1-32440) diluted at 1:10000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.	
Immunohistochemistry-Paraffin: PAX8 Antibody [NBP1-32440] - PAX8 antibody detects PAX8 protein at nucleus by immunohistochemical analysis.Sample: Paraffin-embedded dog kidney.PAX8 stained by PAX8 antibody (NBP1-32440) diluted at 1:2000.Antigen Retrieval: Citrate buffer, pH 6.0, 15 min	
Western Blot: PAX8 Antibody [NBP1-32440] - Whole cell extract (30 ug) was separated by 10% SDS-PAGE, and the membrane was blotted with PAX8 antibody (NBP1-32440) diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.	

Publications

Masaru Motojima, Masayuki Tanaka, Tsutomu Kume Foxc1 and Foxc2 are indispensable for the maintenance of nephron and stromal progenitors in the developing kidney. Journal of cell science 2022-09-30 [PMID: 36073617]

Heath O, Berlato C, Maniati E et al. Chemotherapy Induces Tumor-Associated Macrophages that Aid Adaptive Immune Responses in Ovarian Cancer Cancer Immunology Research 2021-06-01 [PMID: 33839687]

Kang HS, Grimm SA, Liao XH, Jetten AM Role of GLIS3 in thyroid development and in the regulation of gene expression in thyroid specific Glis3KO mice Research square 2023-07-07 [PMID: 37461635] (IHC, Mouse)

Lakshmi Varahan B Investigating the effects of aspirin in high-grade serous ovarian carcinoma models in vitro Thesis 2023-01-01 (Immunohistochemistry-Paraffin, Human)

Kang HS, Grimm SA, Jothi R et al. GLIS3 regulates transcription of thyroid hormone biosynthetic genes in coordination with other thyroid transcription factors Cell & bioscience 2023-02-15 [PMID: 36793061] (ChIP, Mouse)

Zhou M, Zhou S, Han K et al. Th1 immune maturation effects of Nocardia rubra cell-wall skeleton via PI3K/Akt/PAX8 regulatory axis Science progress 2022-04-27 [PMID: 35473474] (Chip Cytometry, Mouse)

Yoon HJ, Chung YS, Lee YJ Et al. Cancer Patient Tissueoid with Self-Homing Nano-Targeting of Metabolic Inhibitor Advanced science (Weinheim, Baden-Wurttemberg, Germany) 2021-10-18 [PMID: 34664430] (IF/IHC, ICC/IF, Human)

Malacrida B, Nichols S, Maniati E et al. A human multi-cellular model shows how platelets drive production of diseased extracellular matrix and tissue invasion iScience 2021-06-25 [PMID: 34189439]

Delaine-Smith R, Maniati E, Malacrida B et al. Modelling TGF beta R and Hh pathway regulation of prognostic matrisome molecules in ovarian cancer iScience 2021-05-01 [PMID: 34189438] (ICC/IF, Human)

Wang J, Li N, Huang ZB et al. HBx regulates transcription factor PAX8 stabilization to promote the progression of hepatocellular carcinoma Oncogene 2019-08-07 [PMID: 31391550] (WB, Human)

di Martino S, De Luca G, Grassi L et al. Renal cancer: new models and approach for personalizing therapy. J. Exp. Clin. Cancer Res. 2018-09-05 [PMID: 30185225] (IHC-P, Human)

Adler EK, Corona RI, Lee JM et al. The PAX8 cistrome in epithelial ovarian cancer. Oncotarget 2017-11-27 [PMID: 29312534] (Chemotaxis)

More publications at http://www.novusbio.com/NBP1-32440

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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-51907-0.05mg	Recombinant Human PAX8 His Protein

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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