Product Datasheet

SOX17 Antibody - BSA Free
NBP2-24568

Unit Size: 0.1 mg

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

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Publications: 10

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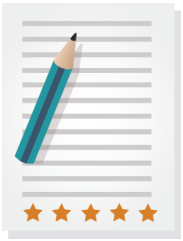
Updated 10/23/2024 v.20.1



NBP2-24568

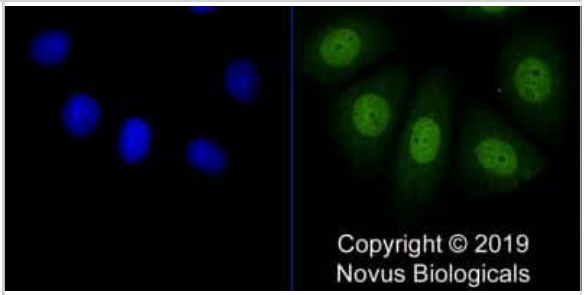
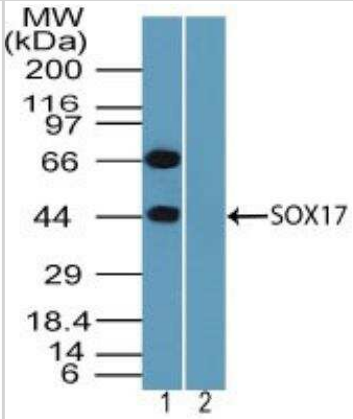
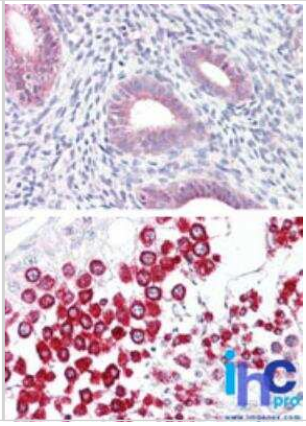
SOX17 Antibody - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
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	Immunogen affinity purified
Buffer	PBS

Product Description	
Host	Rabbit
Gene ID	64321
Gene Symbol	SOX17
Species	Human, Mouse
Immunogen	A portion of amino acids 70-120 of human SOX17 was used as the immunogen for the antibody.

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1-3 ug/ml, Immunohistochemistry 1:200, Immunocytochemistry/ Immunofluorescence 1 - 2 ug/ml, Immunohistochemistry-Paraffin 1:200

Images

Immunocytochemistry/Immunofluorescence: SOX17 Antibody [NBP2-24568] - MCF7 cells were fixed in 4% paraformaldehyde for 10 min and permeabilized in 0.05% Triton X-100 in PBS for 5 minutes. The cells were incubated with anti-Sox17 Antibody at 2 ug/ml for 60 minutes at room temperature and detected with an anti-rabbit Dylight 488 (Green) at a 1:1000 dilution for 60 minutes. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 100X objective.	
Western Blot: SOX17 Antibody [NBP2-24568] - Analysis of SOX17 in mouse embryo brain lysate in the (1) absence and (2) presence of immunizing peptide using SOX17 antibody at 1 ug/ml. Goat anti-rabbit Ig HRP secondary antibody and PicoTect ECL substrate solution were used for this test.	
Immunohistochemistry-Paraffin: SOX17 Antibody [NBP2-24568] - Human uterus (top) and testis (bottom) stained with SOX17 antibody at 10 ug/ml.	

Publications

Pan P, Skaer CW, Wang HT et al. Loss of Free Fatty Acid Receptor 2 enhances colonic adenoma development and reduces the chemopreventive effects of black raspberries in ApcMin/+ mice. Carcinogenesis. 2016-11-19 [PMID: 27866157]

Warren I, Moeller MM, Guiggey D et al. FOXA1/2 depletion drives global reprogramming of differentiation state and metabolism in a human liver cell line and inhibits differentiation of human stem cell-derived hepatic progenitor cells FASEB journal : official publication of the Federation of American Societies for Experimental Biology 2023-01-01 [PMID: 36515690]

Zhen X, Park SJ, Choe SH et al. Generation of induced pluripotent stem cells (cmESF-iPS-C5) derived from cynomolgus monkey ear skin fibroblasts (cmESF) Stem cell research 2022-11-15 [PMID: 36403550]

Zhen X, Kang W, Park SJ et al. Generation and characterization of cynomolgus monkey kidney fibroblasts (cmKF)-derived induced pluripotent stem cells (cmKF-iPS-C5) Stem cell research 2022-08-03 [PMID: 35944314] (ICC/IF, Cynomolgus Monkey)

Details:
Dilution used for ICC 1:100

Chiang A Role of FoxA Factors in Liver Differentiation and Reprogramming Thesis 2022-01-01

Koh H, Zhen X, Kim J et al. Generation and characterization of human umbilical cord blood-derived induced pluripotent stem cells (KRIBBi005-A) Stem cell research 2022-01-19 [PMID: 35085946]

Koh H, Kwon SY, Zhen X Et al. Generation of induced pluripotent stem cell line (KRIBBi004-A) from adult bone marrow CD34+ cells from a patient carrying 46,XX,t(1;5)(p31.1;35.1) karyotype Stem cell research 2021-10-26 [PMID: 34736040]

Fillatre J, Fauny JD, Fels JA et al. TEADs, Yap, Taz, Vgll4s transcription factors control the establishment of Left-Right asymmetry in zebrafish Elife 2019-09-12 [PMID: 31513014] (IF/IHC)

Schroter F, Sleegers K, Van Cauwenberghe C et al. Lymphoblast-derived integration-free iPSC lines from a female and male Alzheimer's disease patient expressing different copy numbers of a coding CNV in the Alzheimer risk gene CR1. Stem Cell Res 2016-10-19 [PMID: 27789410] (ICC/IF, Mouse)

Schroter F, Sleegers K, Cuyvers E et al. Lymphoblast-derived integration-free iPS cell line from a female 67-year-old Alzheimer's disease patient with TREM2 (R47H) missense mutation. Stem Cell Res 2016-10-20 [PMID: 27789408] (ICC/IF, Mouse)

Procedures

Western Blot Protocol for SOX17 Antibody (NBP2-24568)
Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading 10-25 ug of total protein per lane.
2. Transfer proteins to PVDF membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
3. Stain the membrane with Ponceau S (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
4. Rinse the blot TBS -0.05% Tween 20 (TBST).
5. Block the membrane in 5% Non-fat milk in TBST (blocking buffer) for at least 1 hour.
6. Wash the membrane in TBST three times for 10 minutes each.
7. Dilute primary antibody in blocking buffer and incubate overnight at 4C with gentle rocking.
8. Wash the membrane in TBST three times for 10 minutes each.
9. Incubate the membrane in diluted HRP conjugated secondary antibody in blocking buffer (as per manufacturer's instructions) for 1 hour at room temperature.
10. Wash the blot in TBST three times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturer's instructions.

Immunocytochemistry/Immunofluorescence Protocol for SOX17 Antibody (NBP2-24568)
Immunocytochemistry Protocol

Culture cells to appropriate density in 35 mm culture dishes or 6-well plates.

1. Remove culture medium and wash the cells briefly in PBS. Add 10% formalin to the dish and fix at room temperature for 10 minutes.
2. Remove the formalin and wash the cells in PBS.
3. Permeablize the cells with 0.1% Triton X100 or other suitable detergent for 10 min.
4. Remove the permeablization buffer and wash three times for 10 minutes each in PBS. Be sure to not let the specimen dry out.
5. To block nonspecific antibody binding, incubate in 10% normal goat serum from 1 hour to overnight at room temperature.
6. Add primary antibody at appropriate dilution and incubate overnight at 4C.
7. Remove primary antibody and replace with PBS. Wash three times for 10 minutes each.
8. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.
9. Remove secondary antibody and replace with PBS. Wash three times for 10 minutes each.
10. Counter stain DNA with DAPi if required.

Immunohistochemistry-Paraffin Protocol for SOX17 Antibody (NBP2-24568)
Immunohistochemistry-Paraffin Embedded Sections

Antigen Unmasking:
Bring slides to a boil in 10 mM sodium citrate buffer (pH 6.0) then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench-top for 30 minutes (keep slides in the sodium citrate buffer at all times).

Staining:
1. Wash sections in deionized water three times for 5 minutes each.
2. Wash sections in PBS for 5 minutes.
3. Block each section with 100-400 ul blocking solution (1% BSA in PBS) for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul diluted primary antibody. Incubate overnight at 4 C.
5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
6. Add 100-400 ul HRP polymer conjugated secondary antibody. Incubate 30 minutes at room temperature.
7. Wash sections three times in wash buffer for 5 minutes each.
8. Add 100-400 ul DAB substrate to each section and monitor staining closely.
9. As soon as the sections develop, immerse slides in deionized water.
10. Counterstain sections in hematoxylin.
11. Wash sections in deionized water two times for 5 minutes each.
12. Dehydrate sections.
13. Mount coverslips.

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Products Related to NBP2-24568

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-49549PEP	SOX17 Recombinant Protein Antigen

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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