abcam

Product datasheet

Anti-SOX2 antibody [SP76] ab93689

Recombinant RabMAb

11 Images

Overview

Product name	Anti-SOX2 antibody [SP76]
Description	Rabbit monoclonal [SP76] to SOX2
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P, Flow Cyt, ICC/IF, WB
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide within Human SOX2 aa 1-100 (N terminal). The exact sequence is proprietary. Database link: P48431
Positive control	IHC-P: Human prostate, newborn brain, Human lung carcinoma, Mouse stomach, and Rat stomach tissue; WB: MCF7 cell lysate; FC: F9, and NCCIT cells; ICC: F9, and NCCIT cells.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.6 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
Purity	Protein A/G purified
Purification notes	Purified from TCS by protein A/G.
Clonality	Monoclonal
Clone number	SP76
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab93689** in the following tested applications.

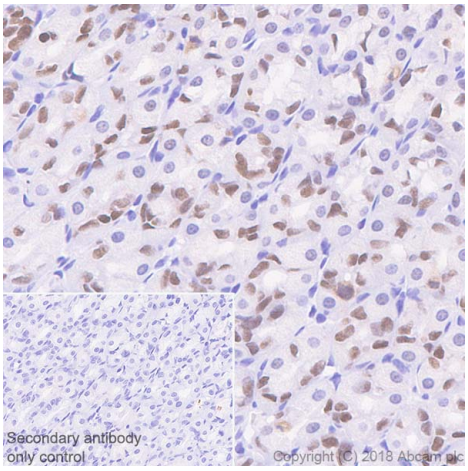
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/100. Antigen Retrieval is recommended, boil tissue section in 10mM citrate buffer, pH 6.0 for 10 minutes followed by cooling at RT for 20 minutes.
Flow Cyt		1/200.
ICC/IF		1/50.
WB		1/100. Predicted molecular weight: 34 kDa.

Target

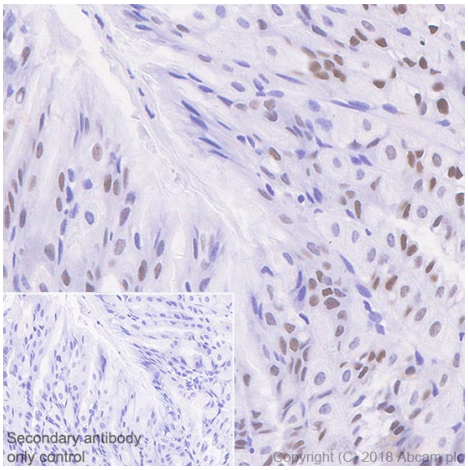
Function	Transcription factor that forms a trimeric complex with OCT4 on DNA and controls the expression of a number of genes involved in embryonic development such as YES1, FGF4, UTF1 and ZFP206 (By similarity). Critical for early embryogenesis and for embryonic stem cell pluripotency.
Involvement in disease	Defects in SOX2 are the cause of microphthalmia syndromic type 3 (MCOPS3) [MIM:206900]. Microphthalmia is a clinically heterogeneous disorder of eye formation, ranging from small size of a single eye to complete bilateral absence of ocular tissues (anophthalmia). In many cases, microphthalmia/anophthalmia occurs in association with syndromes that include non-ocular abnormalities. MCOPS3 is characterized by the rare association of malformations including uni- or bilateral anophthalmia or microphthalmia, and esophageal atresia with trachoesophageal fistula.
Sequence similarities	Contains 1 HMG box DNA-binding domain.
Post-translational modifications	Sumoylation inhibits binding on DNA and negatively regulates the FGF4 transactivation.
Cellular localization	Nucleus.

Images



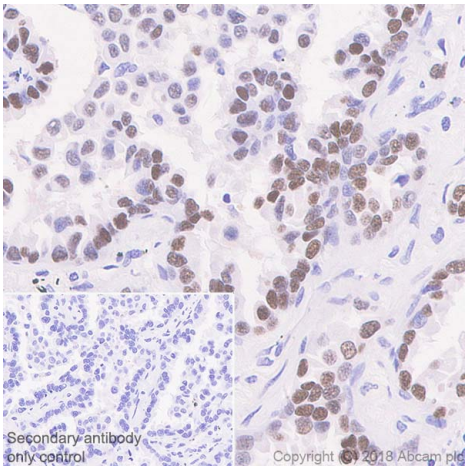
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [SP76] (ab93689)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Rat stomach tissue sections labeling SOX2 with ab93689 at 1/100 dilution (1.37 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 10 mins. Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



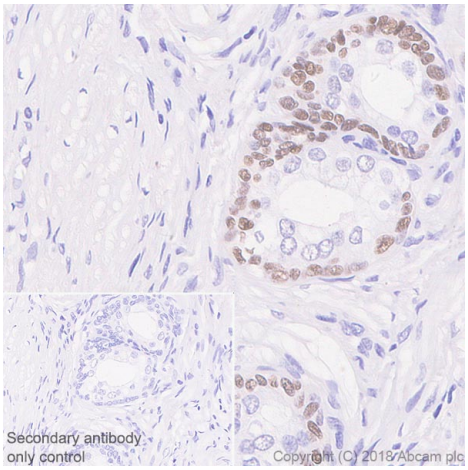
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [SP76] (ab93689)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Mouse stomach tissue sections labeling SOX2 with ab93689 at 1/100 dilution (1.37 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 10 mins. Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



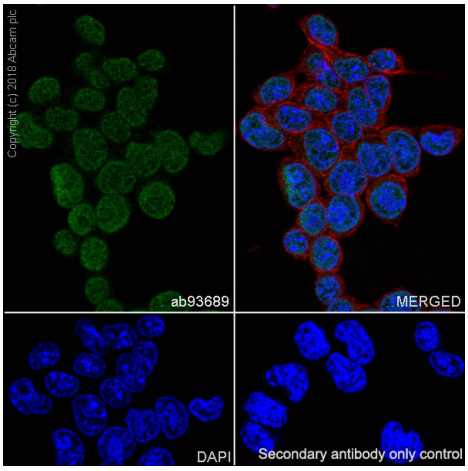
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [SP76] (ab93689)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human lung carcinoma tissue sections labeling SOX2 with ab93689 at 1/100 dilution (1.37 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 10 mins. Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



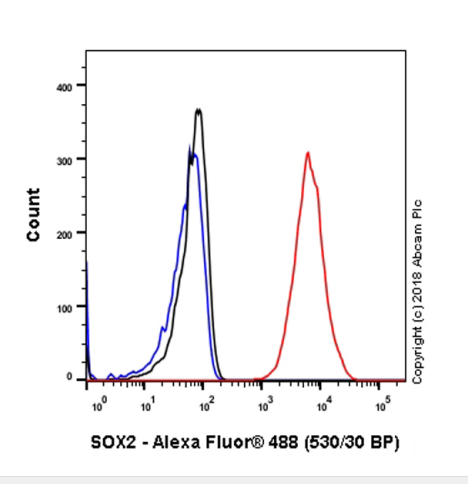
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [SP76] (ab93689)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human prostate tissue sections labeling SOX2 with ab93689 at 1/100 dilution (1.37 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 10 mins. Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



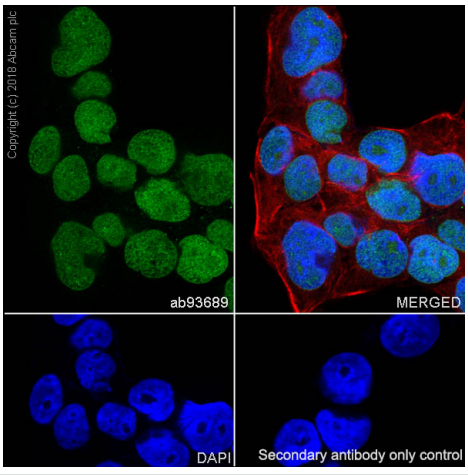
Immunocytochemistry/ Immunofluorescence - Anti-SOX2 antibody [SP76] (ab93689)

Immunocytochemistry/ Immunofluorescence analysis of F9 (mouse embryonal carcinoma epithelial cell) cells labeling SOX2 with purified ab93689 at 1:50 (2.8 µg/ml). Cells were fixed in 100% Methanol and permeabilized with None. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



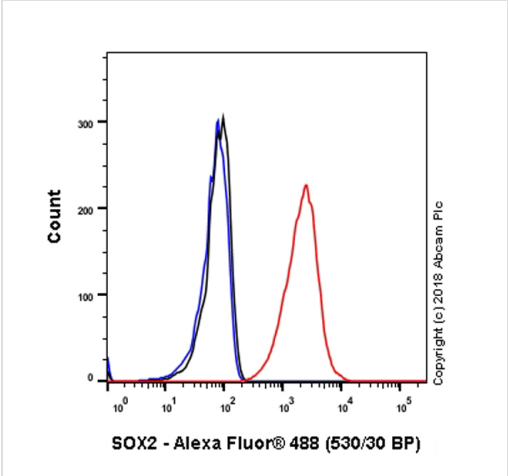
Flow Cytometry - Anti-SOX2 antibody [SP76] (ab93689)

Flow Cytometry analysis of F9(Mouse embryonal carcinoma epithelial cell) cells labeling SOX2 with purified ab93689 at 1:200 dilution (0.685 µg/ml) Red. Cells were fixed with 4% paraformaldehyde . A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) secondary antibody was used at 1:2000 dilution. Isotype control - Rabbit monoclonal IgG (ab172730) / Black. Unlabeled control - Unlabelled cells / Blue.



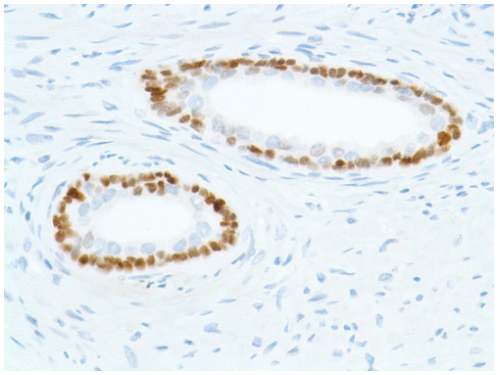
Immunocytochemistry/ Immunofluorescence - Anti-SOX2 antibody [SP76] (ab93689)

Immunocytochemistry/ Immunofluorescence analysis of NCCIT(human pluripotent embryonic carcinoma epithelial cell) cells labeling SOX2 with purified ab93689 at 1:50 (2.8 µg/ml). Cells were fixed in 100% Methanol and permeabilized with None. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



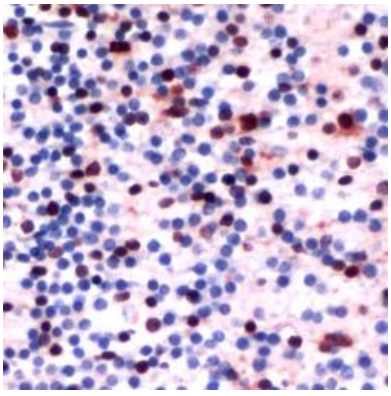
Flow Cytometry - Anti-SOX2 antibody [SP76] (ab93689)

Flow Cytometry analysis of NCCIT(Human pluripotent embryonic carcinoma epithelial cell) cells labeling SOX2 with purified ab93689 at 1:200 dilution (0.685 µg/ml) Red. Cells were fixed with 4% paraformaldehyde . A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) secondary antibody was used at 1:2000 dilution. Isotype control - Rabbit monoclonal IgG (ab172730) / Black. Unlabeled control - Unlabelled cells / Blue.



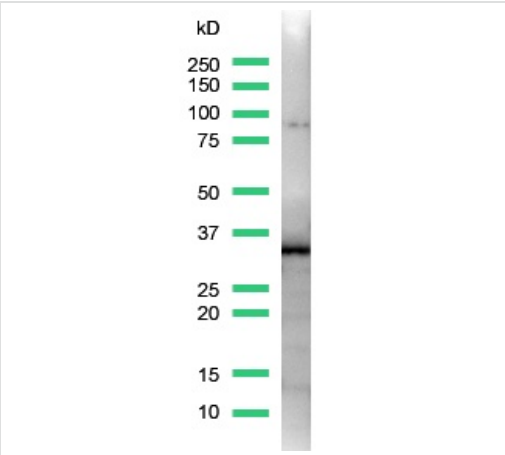
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [SP76] (ab93689)

Immunohistochemical analysis of human prostate tissue labeling SOX2 with ab93689.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [SP76] (ab93689)

ab93689 at 1/100 dilution, staining SOX2 in human newborn brain by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections).



Western blot - Anti-SOX2 antibody [SP76] (ab93689)

Anti-SOX2 antibody [SP76] (ab93689) at 1/100 dilution + MCF7 (Human breast adenocarcinoma cell line) cell lysate

Predicted band size: 34 kDa

Observed band size: 34 kDa

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