

### Anti-SOX2 antibody [SP76] ab93689

重组 RabMAb

★★★★☆ **1 Abreviews** **28 References** **13 图像**

#### 概述

产品名称	Anti-SOX2抗体[SP76]
描述	兔单克隆抗体[SP76] to SOX2
宿主	Rabbit
经测试应用	适用于: IHC-P, ICC/IF, Flow Cyt (Intra), WB
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide within Human SOX2 aa 1-100 (N terminal). The exact sequence is proprietary. Database link: <a href="#">P48431</a>
阳性对照	IHC-P: Human prostate, newborn brain, Human lung carcinoma, Mouse stomach, and Rat stomach tissue; WB: MCF7 cell lysate; Flow Cyt (Intra): F9, and NCCIT cells; ICC: F9, and NCCIT cells.
常规说明	<b>This product is FOR RESEARCH USE ONLY. For commercial use, please contact <a href="mailto:partnerships@abcam.com">partnerships@abcam.com</a>.</b>

#### 性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
存储溶液	pH: 7.60 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
纯度	Protein A/G purified
纯化说明	Purified from TCS by protein A/G.
克隆	单克隆
克隆编号	SP76
同种型	IgG

#### 应用

**The Abpromise guarantee****Abpromise™** 承诺保证使用ab93689于以下的经测试应用

“应用说明”部分下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
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.
ICC/IF		1/50.
Flow Cyt (Intra)		1/200.
WB		1/100. Predicted molecular weight: 34 kDa.

**靶标****功能**

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.

**疾病相关**

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.

**序列相似性**

Contains 1 HMG box DNA-binding domain.

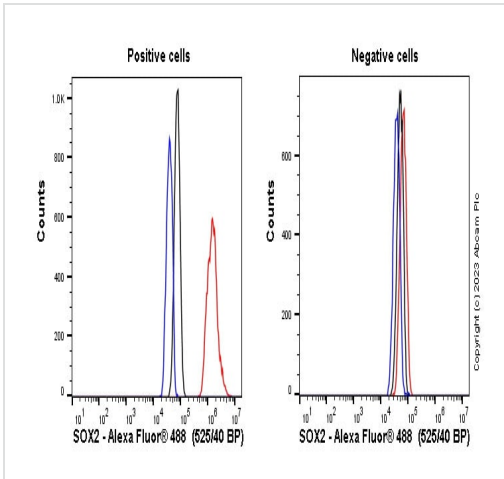
**翻译后修饰**

Sumoylation inhibits binding on DNA and negatively regulates the FGF4 transactivation.

**细胞定位**

Nucleus.

**图片**



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

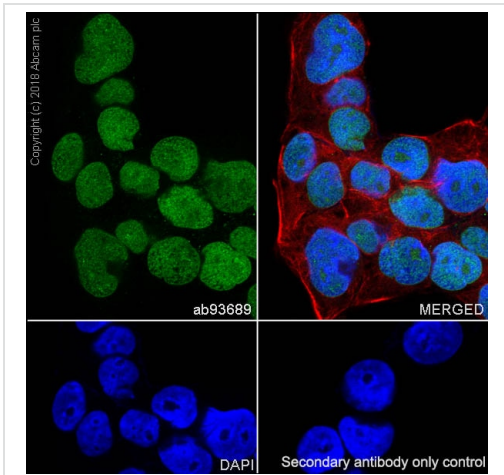
Flow cytometry overlay histogram showing left NCCIT positive cells and right negative HeLa stained with ab93689 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilised with 0.1% PBS-Triton X-100 for 15 min. The cells were then incubated in 1x PBS containing 10% normal goat serum to block non-specific protein-protein interaction followed by the antibody (ab93689) ( $1 \times 10^6$  in 100 $\mu$ l at 0.04 $\mu$ g/ml (1/52000)) for 30min at 22°C.

The secondary antibody Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed was incubated at 1/4000 for 30min at 22°C

Isotype control antibody (black line) was Recombinant Rabbit IgG, monoclonal [EPR25A] - Isotype Control used at the same concentration and conditions as the primary antibody. Unlabelled sample (blue line) was also used as a control.

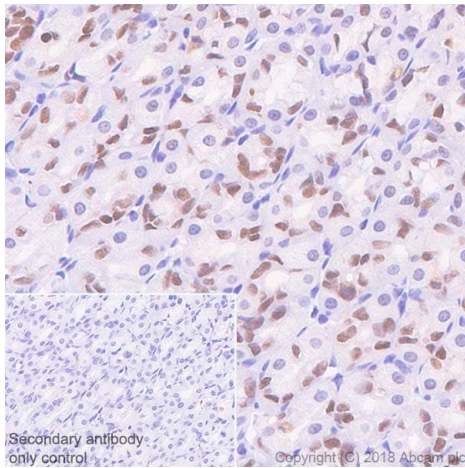
Acquisition of >5000 events were collected using a 50 mW Blue laser (488nm) and 525/40 bandpass filter.

This antibody gave a positive signal in NCCIT Fixed with 4% formaldehyde (10 min) / permeabilised with 0.1% PBS-Triton X-100 for 15 min under the same conditions.



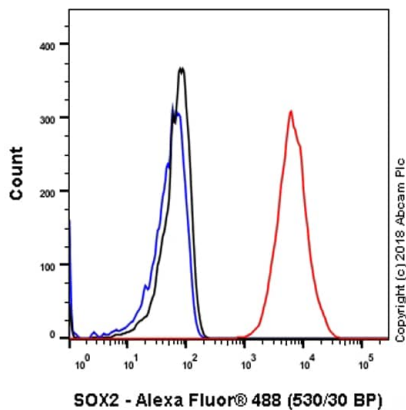
Immunocytochemistry/ Immunofluorescence - Anti-SOX2 antibody [SP76] (ab93689)

Immunocytochemistry/ Immunofluorescence analysis of NCCIT( human pluripotent embryonic carcinoma epithelial cell) cells labeling SOX2 with purified ab93689 at 1:50 (2.8  $\mu$ g/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  $\mu$ g/ml). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1:1000 (2  $\mu$ g/ml) dilution. DAPI nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



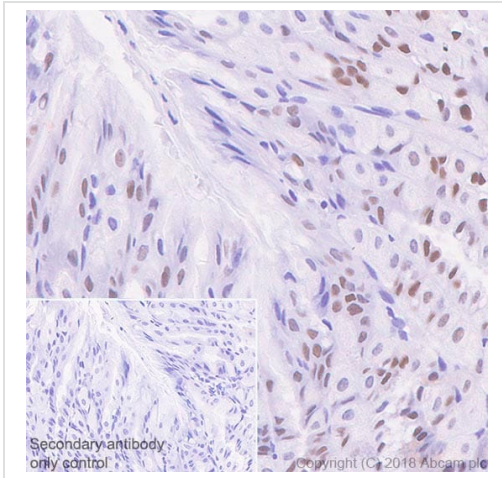
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Rat stomach tissue sections labeling SOX2 with ab93689 at 1/100 dilution (1.37  $\mu\text{g/ml}$ ). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope 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)



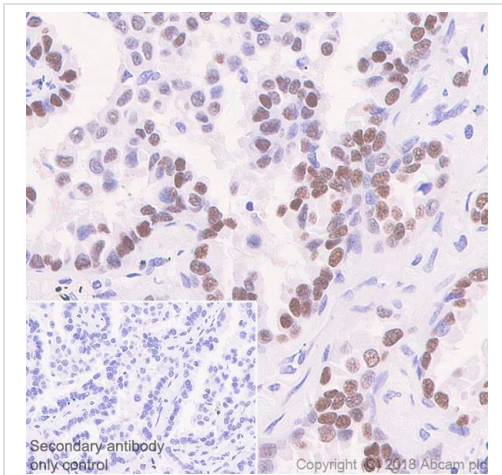
Flow Cytometry analysis of F9(Mouse embryonal carcinoma epithelial cell) cells labeling SOX2 with purified ab93689 at 1:200 dilution (0.685  $\mu\text{g/ml}$ ) Red. Cells were fixed with 4% paraformaldehyde . A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) secondary antibody was used at 1:2000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

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



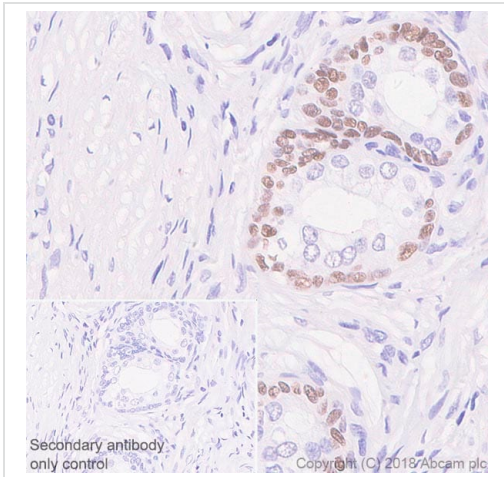
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [SP76] (ab93689)

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.



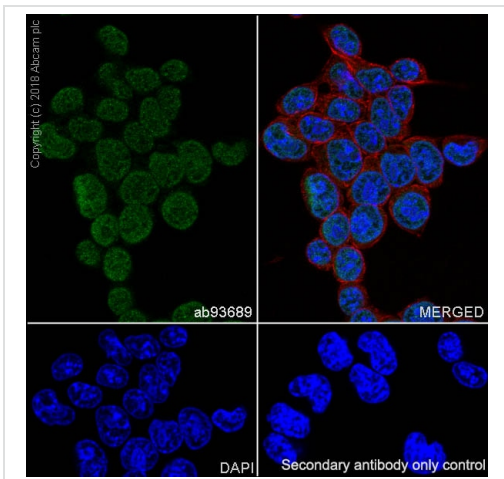
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [SP76] (ab93689)

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)

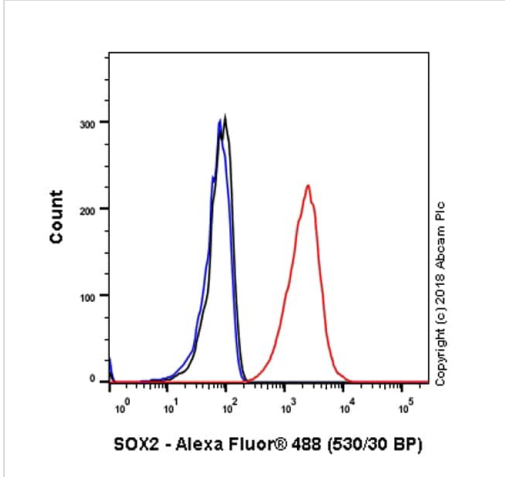
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human prostate tissue sections labeling SOX2 with ab93689 at 1/100 dilution (1.37 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval 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)

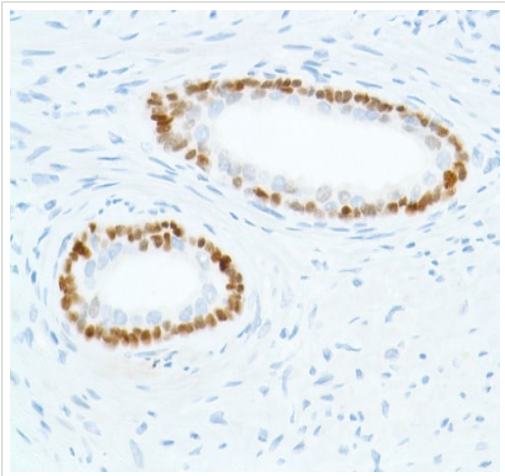
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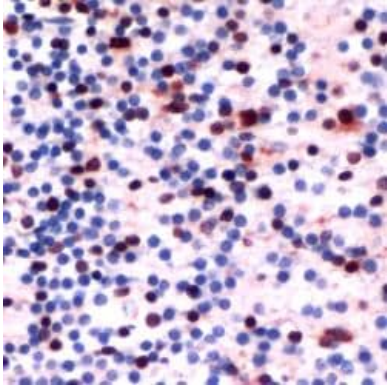
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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [SP76] (ab93689)

Immunohistochemical analysis of human prostate tissue labeling SOX2 with ab93689.



Formalin-fixed paraffin-embedded human newborn brain tissue stained for SOX2 using ab93689 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - 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

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



Why choose a recombinant antibody?

<p><b>Research with confidence</b> Consistent and reproducible results</p>	<p><b>Long-term and scalable supply</b> Recombinant technology</p>
<p><b>Success from the first experiment</b> Confirmed specificity</p>	<p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-SOX2 antibody [SP76] (ab93689)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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