

Anti-SOX2 antibody [SP76] ab93689

リコンビナント **RabMAb**

★★★★★ **1 Abreviews** **28 References** 画像数 **13**

製品の概要

製品名	Anti-SOX2 antibody [SP76]
製品の詳細	Rabbit monoclonal [SP76] to SOX2
由来種	Rabbit
アプリケーション	適用あり: IHC-P, ICC/IF, Flow Cyt (Intra), WB
種交差性	交差種: Mouse, Rat, Human
免疫原	Synthetic peptide within Human SOX2 aa 1-100 (N terminal). The exact sequence is proprietary. Database link: <u>P48431</u>
ポジティブ・コントロール	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.
特記事項	This product is FOR RESEARCH USE ONLY. For commercial use, please contact partnerships@abcam.com.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
バッファー	pH: 7.60 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
精製度	Protein A/G purified
特記事項 (精製)	Purified from TCS by protein A/G.
ポリ/モノ	モノクローナル
クローン名	SP76
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee

Abpromise保証は、次のテスト済みアプリケーションにおけるab93689の使用に適用されます

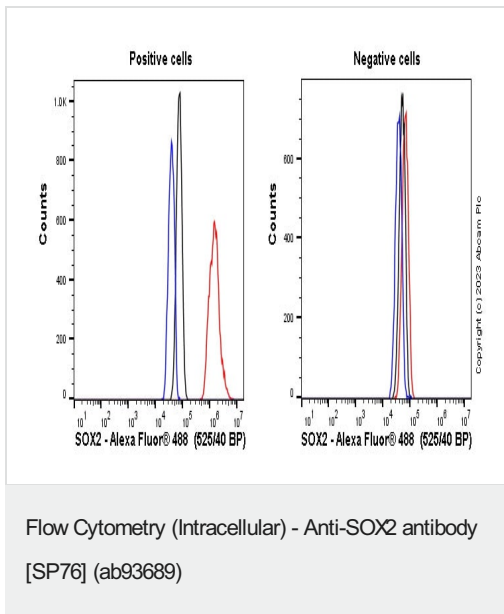
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
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.

ターゲット情報

機能	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.
関連疾患	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.
配列類似性	Contains 1 HMG box DNA-binding domain.
翻訳後修飾	Sumoylation inhibits binding on DNA and negatively regulates the FGF4 transactivation.
細胞内局在	Nucleus.

画像



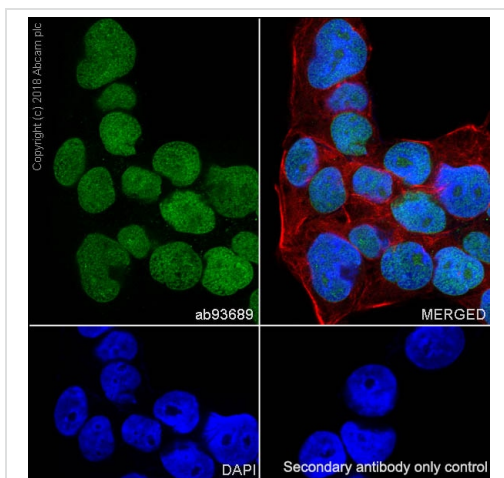
Flow cytometry overlay histogram showing left NCCIT positive cells and right negative HeLa stained with ab93689 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilised with 0.1% PBS-Triton X-100 for 15 min. The cells were then incubated in 1x PBS containing 10% normal goat serum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

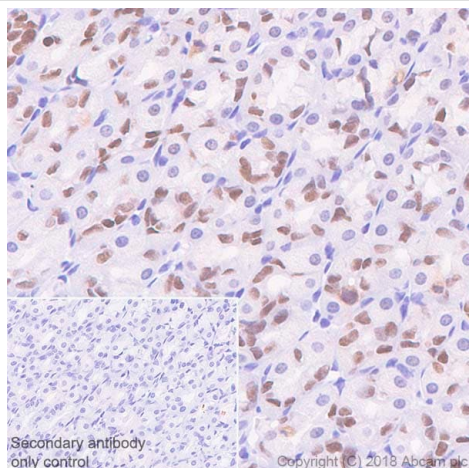
Acquisition of >5000 events were collected using a 50 mW Blue laser (488nm) and 525/40 bandpass filter.

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.



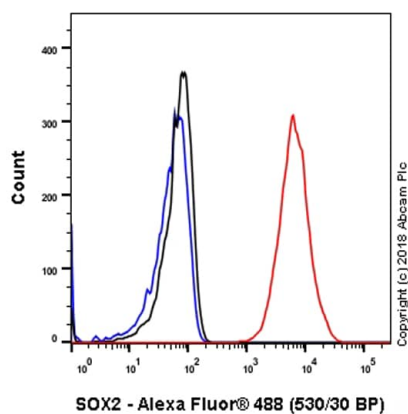
Immunocytochemistry/ Immunofluorescence analysis of NCCIT(human pluripotent embryonic carcinoma epithelial cell) cells labeling SOX2 with purified ab93689 at 1:50 (2.8 μ g/ml). Cells were fixed in 100% Methanol and permeabilized with None. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody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

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



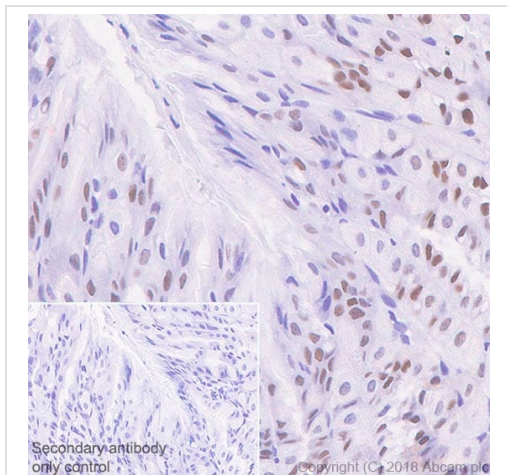
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [SP76] (ab93689)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of 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.



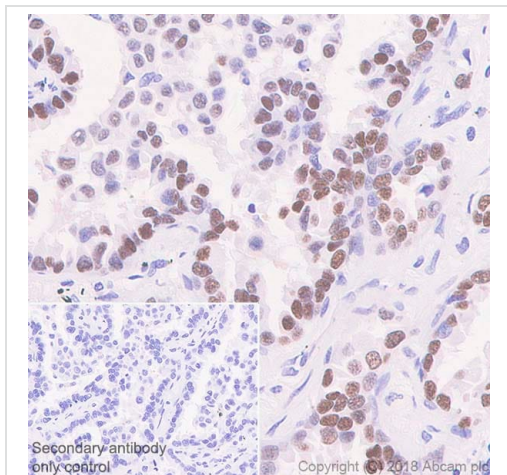
Flow Cytometry (Intracellular) - Anti-SOX2 antibody [SP76] (ab93689)

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).



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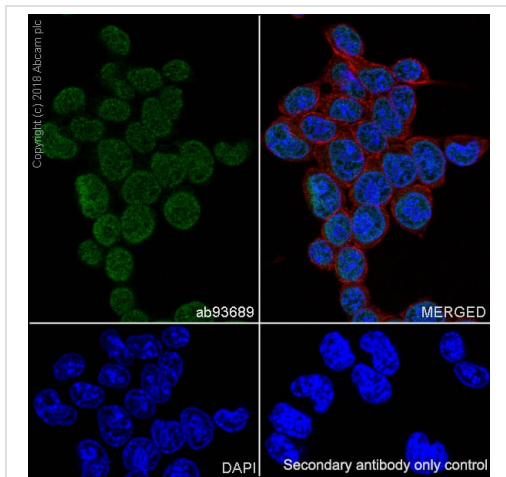
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [SP76] (ab93689)

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.



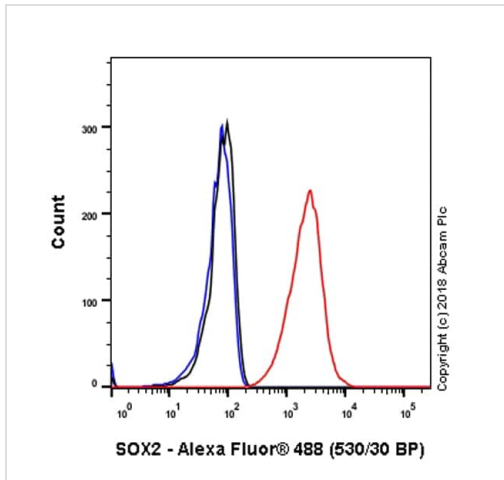
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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human prostate tissue sections labeling SOX2 with ab93689 at 1/100 dilution (1.37 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval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



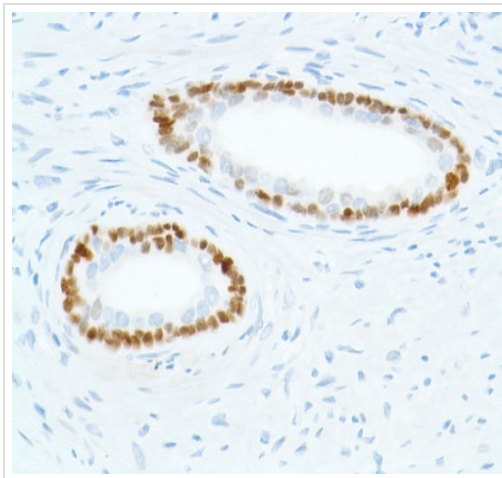
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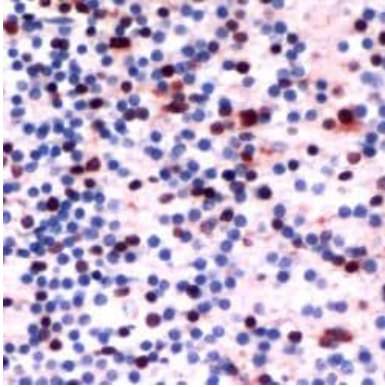
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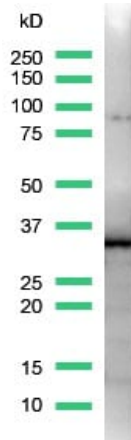
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [SP76]
(ab93689)

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

Anti-SOX2 antibody [SP76] (ab93689)

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