

Product datasheet

Anti-SOX2 antibody [SP76] - N-terminal, prediluted ab101547

Recombinant RabMAb

23 Images

Overview

Product name	Anti-SOX2 antibody [SP76] - N-terminal, prediluted
Description	Rabbit monoclonal [SP76] to SOX2 - N-terminal, prediluted
Host species	Rabbit
Tested applications	Suitable for: IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human SOX2 aa 1-100 (N terminal). The exact sequence is proprietary. Database link: P48431
Epitope	N-terminus
Positive control	IHC-P: Human prostate, lung, lung squamous cell carcinoma, ovarian adenocarcinoma, prostate hyperplasia, prostate PIN, cervical squamous cell carcinoma, cerebellum, esophagus, esophagus squamous cell carcinoma, bladder, bladder transitional cell carcinoma, bronchus, cervix, fallopian tube, lung adenocarcinoma, prostate adenocarcinoma, skin, skin squamous cell carcinoma, spinal cord, stomach and stomach adenocarcinoma tissue.
General notes	This product is FOR RESEARCH USE ONLY. For commercial use, please contact partnerships@abcam.com.

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.60 Preservative: 0.1% Sodium azide Constituents: Tris buffered saline, 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 **ab101547** 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		1/1. Ready to use. Boil tissue section in 10mM citrate buffer, pH 6.0 for 10 minutes followed by cooling at room temperature for 20 minutes. Incubate primary antibody for 30 minutes at room temperature.

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.

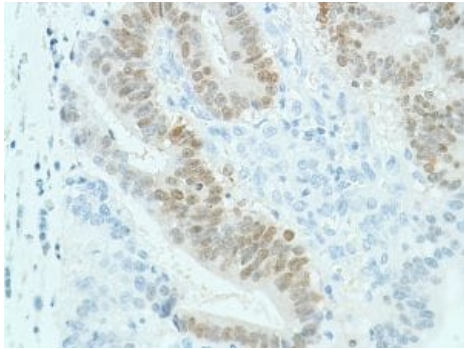
**Post-translational
modifications**

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

Cellular localization

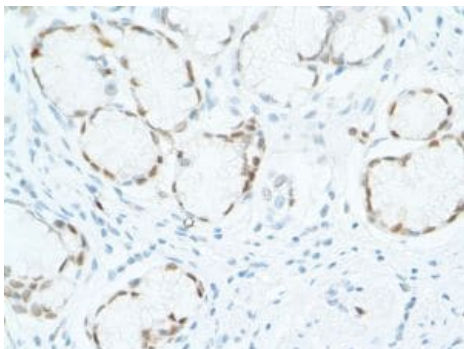
Nucleus.

Images



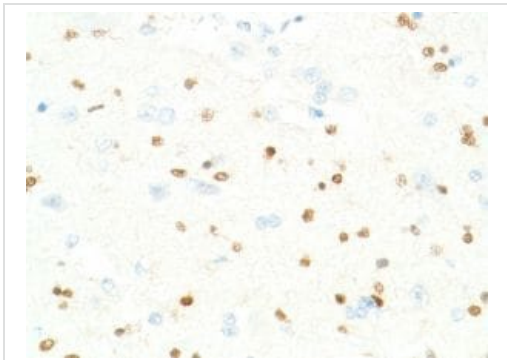
Formalin-fixed, paraffin-embedded human stomach adenocarcinoma tissue stained for SOX2 with ab101547 in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [SP76] - N-terminal, prediluted (ab101547)



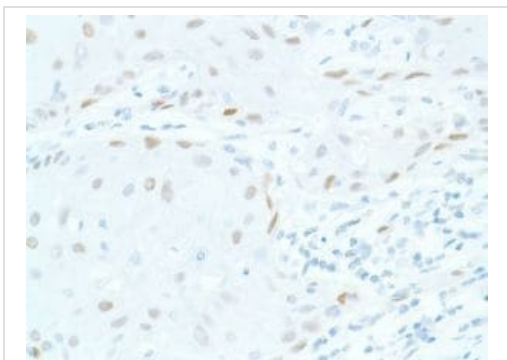
Formalin-fixed, paraffin-embedded human stomach tissue stained for SOX2 with ab101547 in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [SP76] - N-terminal, prediluted (ab101547)



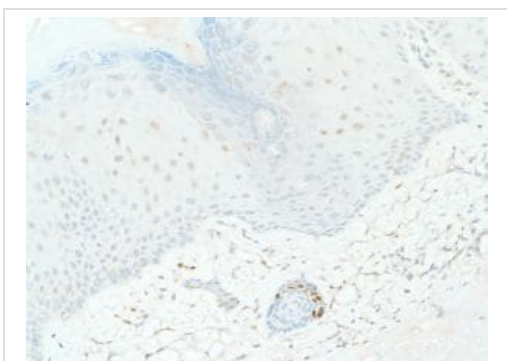
Formalin-fixed, paraffin-embedded human spinal cord tissue stained for SOX2 with ab101547 in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [SP76] - N-terminal, prediluted (ab101547)



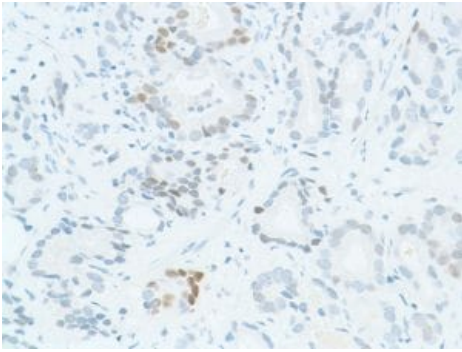
Formalin-fixed, paraffin-embedded human skin squamous cell carcinoma tissue stained for SOX2 with ab101547 in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [SP76] - N-terminal, prediluted (ab101547)



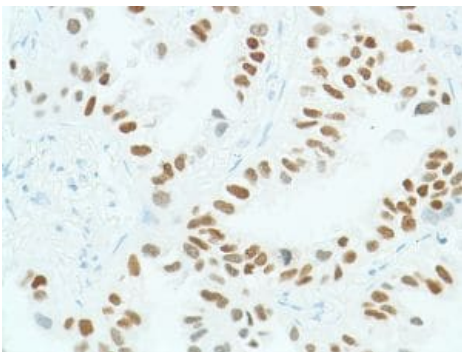
Formalin-fixed, paraffin-embedded human skin tissue stained for SOX2 with ab101547 in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [SP76] - N-terminal, prediluted (ab101547)



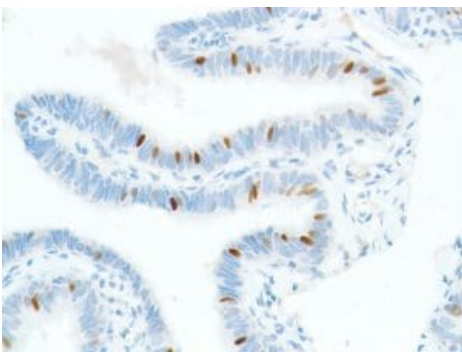
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [SP76] - N-terminal, prediluted (ab101547)

Formalin-fixed, paraffin-embedded human prostate adenocarcinoma tissue stained for SOX2 with ab101547 in immunohistochemical analysis.



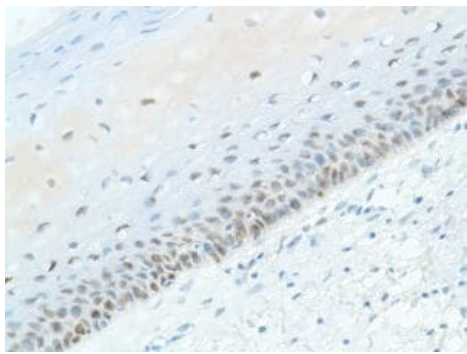
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [SP76] - N-terminal, prediluted (ab101547)

Formalin-fixed, paraffin-embedded human lung adenocarcinoma tissue stained for SOX2 with ab101547 in immunohistochemical analysis.



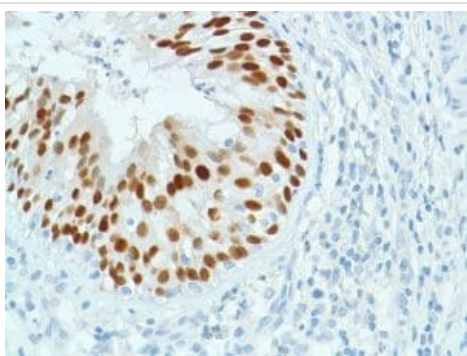
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [SP76] - N-terminal, prediluted (ab101547)

Formalin-fixed, paraffin-embedded human fallopian tube tissue stained for SOX2 with ab101547 in immunohistochemical analysis.



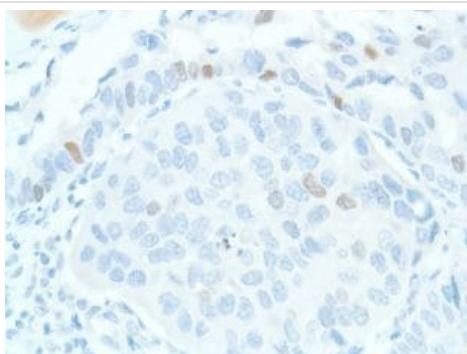
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [SP76] - N-terminal, prediluted (ab101547)

Formalin-fixed, paraffin-embedded human cervix tissue stained for SOX2 with ab101547 in immunohistochemical analysis.



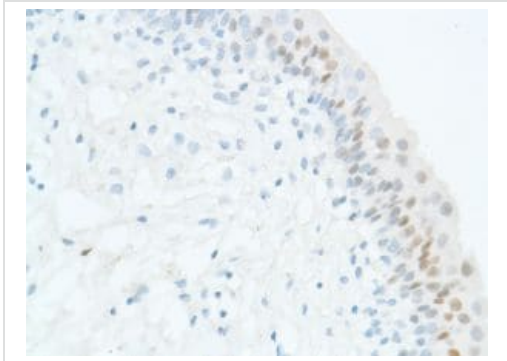
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [SP76] - N-terminal, prediluted (ab101547)

Formalin-fixed, paraffin-embedded human bronchus tissue stained for SOX2 with ab101547 in immunohistochemical analysis.



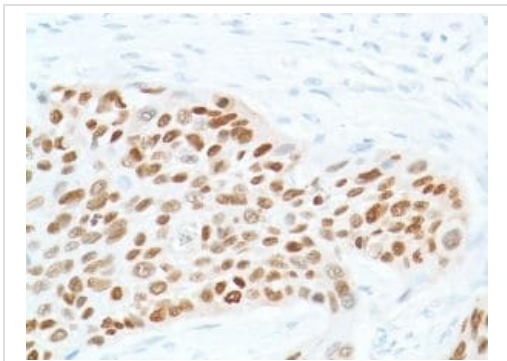
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [SP76] - N-terminal, prediluted (ab101547)

Formalin-fixed, paraffin-embedded human bladder transitional cell carcinoma tissue stained for SOX2 with ab101547 in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [SP76] - N-terminal, prediluted (ab101547)

Formalin-fixed, paraffin-embedded human bladder tissue stained for SOX2 with ab101547 in immunohistochemical analysis.



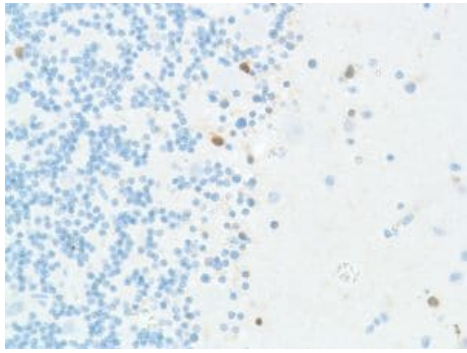
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [SP76] - N-terminal, prediluted (ab101547)

Formalin-fixed, paraffin-embedded human esophagus squamous cell carcinoma tissue stained for SOX2 with ab101547 in immunohistochemical analysis.



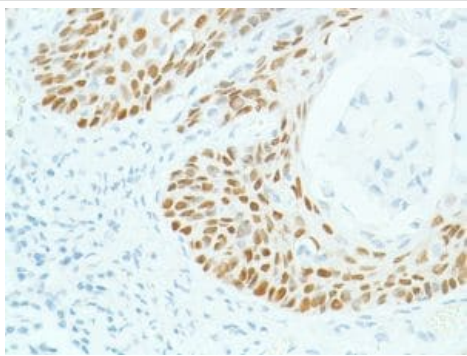
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [SP76] - N-terminal, prediluted (ab101547)

Formalin-fixed, paraffin-embedded human esophagus tissue stained for SOX2 with ab101547 in immunohistochemical analysis.



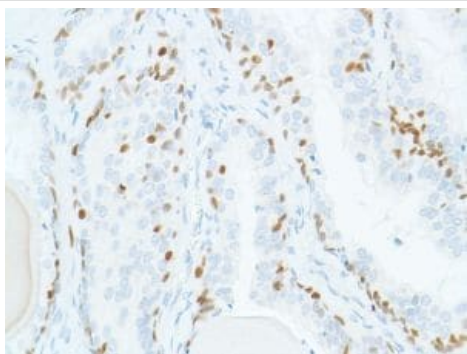
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [SP76] - N-terminal, prediluted (ab101547)

Formalin-fixed, paraffin-embedded human cerebellum tissue stained for SOX2 with ab101547 in immunohistochemical analysis.



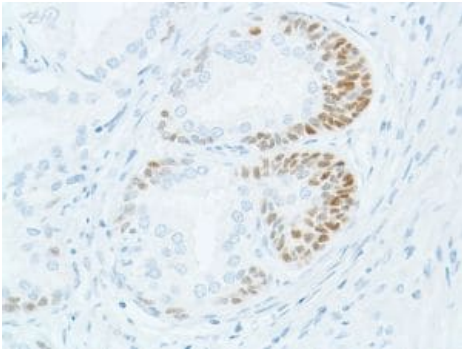
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [SP76] - N-terminal, prediluted (ab101547)

Formalin-fixed, paraffin-embedded human cervical squamous cell carcinoma tissue stained for SOX2 with ab101547 in immunohistochemical analysis.



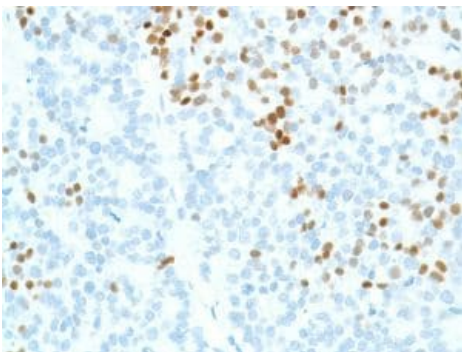
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [SP76] - N-terminal, prediluted (ab101547)

Formalin-fixed, paraffin-embedded human prostate PIN tissue stained for SOX2 with ab101547 in immunohistochemical analysis.



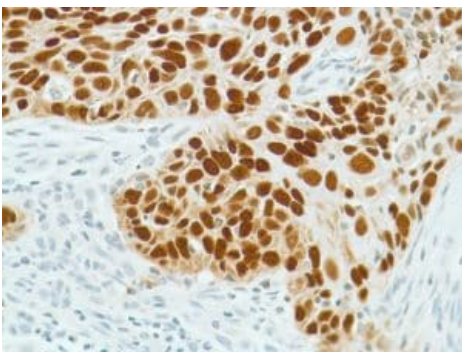
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [SP76] - N-terminal, prediluted (ab101547)

Formalin-fixed, paraffin-embedded human prostate hyperplasia tissue stained for SOX2 with ab101547 in immunohistochemical analysis.



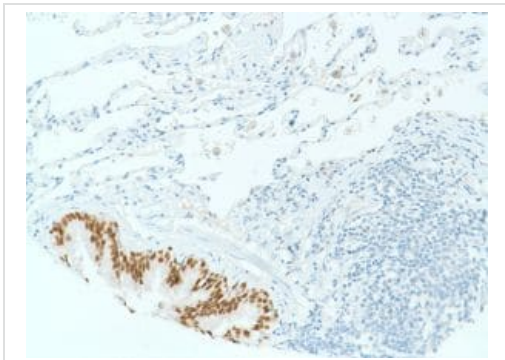
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [SP76] - N-terminal, prediluted (ab101547)

Formalin-fixed, paraffin-embedded human ovarian adenocarcinoma tissue stained for SOX2 with ab101547 in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [SP76] - N-terminal, prediluted (ab101547)

Formalin-fixed, paraffin-embedded human lung squamous cell carcinoma tissue stained for SOX2 with ab101547 in immunohistochemical analysis.



Formalin-fixed, paraffin-embedded human lung tissue stained for SOX2 with ab101547 in immunohistochemical analysis.





Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [SP76] - N-terminal, prediluted (ab101547)



Formalin-fixed, paraffin-embedded human prostate tissue stained for SOX2 with ab101547 in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [SP76] - N-terminal, prediluted (ab101547)

Why choose a recombinant antibody?

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

Anti-SOX2 antibody [SP76] - N-terminal, prediluted (ab101547)

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

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