

Product datasheet

Anti-SOX9 antibody [EPR14335] ab185230

Recombinant RabMAb

★★★★★ 6 Abreviews 43 References 9 Images

Overview

Product name	Anti-SOX9 antibody [EPR14335]
Description	Rabbit monoclonal [EPR14335] to SOX9
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB, IHC-P, Flow Cyt, IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant fragment within Human SOX9 aa 150-300. The exact sequence is proprietary. Database link: P48436
Positive control	WB: SW480 and PC3 cell lysates; IHC-P: Human, mouse and rat colon tissue. ICC/IF: SW480 cells. Flow Cyt: PC3 cells. IP: SW480 cell lysate.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>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.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>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.</p> <p>Applications & species from publications and Abreviews that have not been tested in our own</p>

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 short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR14335
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab185230** 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
ICC/IF	★★★★★	1/250.
WB		1/1000 - 1/10000. Detects a band of approximately 70 kDa (predicted molecular weight: 56 kDa).
IHC-P		1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
Flow Cyt		1/190. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
IP		1/60.

Target

Function	Plays an important role in the normal skeletal development. May regulate the expression of other genes involved in chondrogenesis by acting as a transcription factor for these genes.
Involvement in disease	Defects in SOX9 are the cause of campomelic dysplasia (CMD1) [MIM:114290]. CMD1 is a rare, often lethal, dominantly inherited, congenital osteochondrodysplasia, associated with male-to-female autosomal sex reversal in two-thirds of the affected karyotypic males. A disease of the newborn characterized by congenital bowing and angulation of long bones, unusually small

scapulae, deformed pelvis and spine and a missing pair of ribs. Craniofacial defects such as cleft palate, micrognathia, flat face and hypertelorism are common. Various defects of the ear are often evident, affecting the cochlea, malleus incus, stapes and tympanum. Most patients die soon after birth due to respiratory distress which has been attributed to hypoplasia of the tracheobronchial cartilage and small thoracic cage.

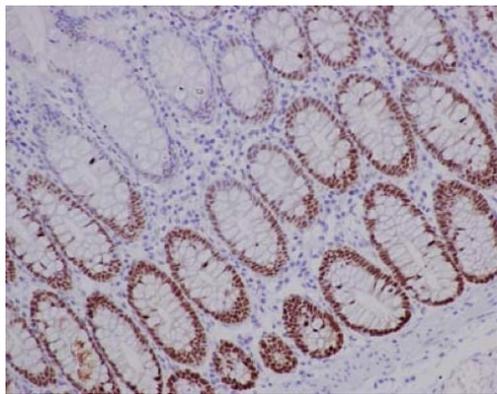
Sequence similarities

Contains 1 HMG box DNA-binding domain.

Cellular localization

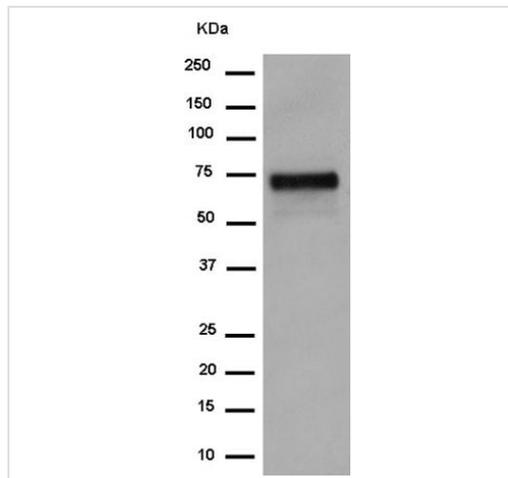
Nucleus.

Images



Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling SOX9 with ab185230 at 1/2000 dilution followed by pre-diluted HRP-conjugated secondary antibody and counter-stained with Hematoxylin. Heat mediated antigen retrieval was performed with EDTA buffer pH 9 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX9 antibody [EPR14335] (ab185230)



Anti-SOX9 antibody [EPR14335] (ab185230) at 1/20000 dilution + SW480 cell lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 56 kDa

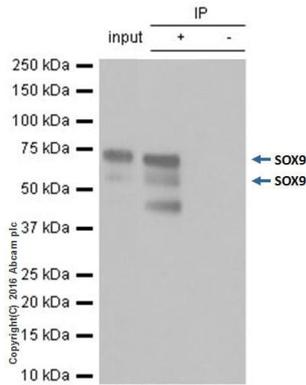
Western blot - Anti-SOX9 antibody [EPR14335] (ab185230)



Immunocytochemistry/ Immunofluorescence - Anti-SOX9 antibody [EPR14335] (ab185230)

Immunofluorescent analysis of SW480 cells (4% paraformaldehyde-fixed) labeling SOX9 with ab185230 at 1/250 dilution followed by Goat anti rabbit IgG (Alexa Fluor® 555) secondary at 1/200 dilution and counter-stained with DAPI (blue).

Alexa Fluor® 488 (ab196450) and Alexa Fluor® 647 (ab196184) conjugated versions are available for this clone.



Immunoprecipitation - Anti-SOX9 antibody [EPR14335] (ab185230)

ab185230 at 1/60 immunoprecipitating SOX9 in SW480 (human colorectal adenocarcinoma) whole cell lysate observed at 56 and 75 KDa (lanes 1 and 2).

The expression pattern observed is consistent with the literature (PMID: 10682837) with an additional off-target band at 46 kD.

Lane 1 (input): SW480 whole cell lysate 10µg

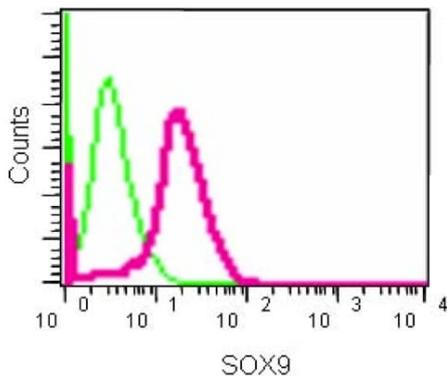
Lane 2 (+): SW480 whole cell lysate.

Lane 3 (-): Rabbit monoclonal IgG (ab172730) instead of ab185230 in SW480 whole cell lysate

For western blotting, ab185230 (1/1000) was used as the primary antibody and VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/10,000 dilution.

Blocking buffer and concentration: 5% NFDm/TBST.

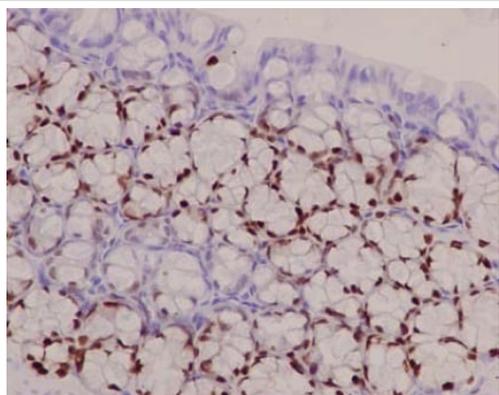
Diluting buffer and concentration: 5% NFDm /TBST.



Flow Cytometry - Anti-SOX9 antibody [EPR14335] (ab185230)

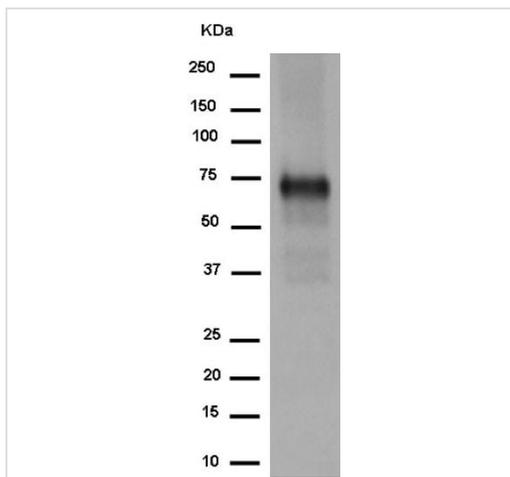
Flow Cytometric analysis of PC3 cells (2% paraformaldehyde-fixed) labeling SOX9 with ab185230 at 1/190 dilution (red) or a rabbit IgG (negative) (green), followed by Goat anti rabbit IgG (FITC) secondary at 1/150 dilution.

Alexa Fluor® 488 (ab196450) and Alexa Fluor® 647 (ab196184) conjugated versions are available for this clone.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX9 antibody [EPR14335] (ab185230)

Immunohistochemical analysis of paraffin-embedded Mouse colon tissue labeling SOX9 with ab185230 at 1/2000 dilution followed by pre-diluted HRP-conjugated secondary antibody and counter-stained with Hematoxylin. Heat mediated antigen retrieval was performed with EDTA buffer pH 9 before commencing with IHC staining protocol.



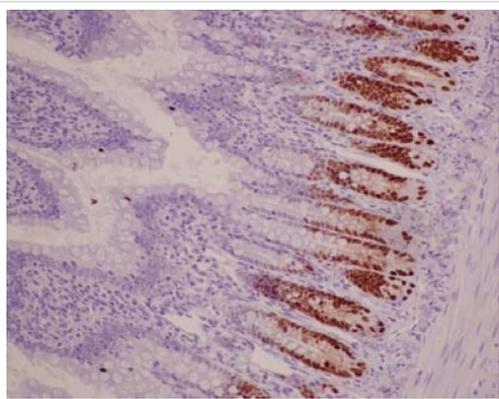
Western blot - Anti-SOX9 antibody [EPR14335] (ab185230)

Anti-SOX9 antibody [EPR14335] (ab185230) at 1/5000 dilution + PC3 cell lysate at 20 μ g

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 56 kDa



Immunohistochemical analysis of paraffin-embedded Rat colon tissue labeling SOX9 with ab185230 at 1/2000 dilution followed by pre-diluted HRP-conjugated secondary antibody and counter-stained with Hematoxylin. Heat mediated antigen retrieval was performed with EDTA buffer pH 9 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX9 antibody [EPR14335] (ab185230)

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-SOX9 antibody [EPR14335] (ab185230)

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

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