**Product datasheet**

**Anti-SOX9 antibody [EPR14335] ab185230**

★★★★★ 4 Abreviews  22 References  8 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**  

**General notes**

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).  
This product is a recombinant rabbit monoclonal antibody.

### Properties

**Form**  
Liquid

**Storage instructions**  

**Storage buffer**  
Preservative: 0.01% Sodium azide  
Constituents: 59% PBS, 40% Glycerol, 0.05% BSA

**Purity**  
Protein A purified

**Clonality**  
Monoclonal

**Clone number**  
EPR14335

**Isotype**  
IgG
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, micrognatia, 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.

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.

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Target Images
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Sequence similarities
Contains 1 HMG box DNA-binding domain.

Cellular localization
Nucleus.
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.

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

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

**Western blot**

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

**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.

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