

Product datasheet

Anti-SOX9 antibody [EPR12755] ab182579

Recombinant RabMAb

1 References 7 Images

Overview

Product name	Anti-SOX9 antibody [EPR12755]
Description	Rabbit monoclonal [EPR12755] to SOX9
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt, WB, ICC/IF, IP
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment corresponding to Human SOX9 aa 400 to the C-terminus. Database link: P48436
Positive control	SW480 and Caco 2 cell lysates; SW480 and Caco 2 cells.
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 labs or in those of our suppliers are not covered by the Abpromise guarantee.</p>

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, 0.05% BSA, 40% Glycerol (glycerin, glycerine)
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR12755
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab182579** 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
Flow Cyt		Use at an assay dependent concentration.
WB		1/10000 - 1/50000. Detects a band of approximately 70 kDa (predicted molecular weight: 56 kDa).
ICC/IF		1/250.
IP		1/20 - 1/80.

Target

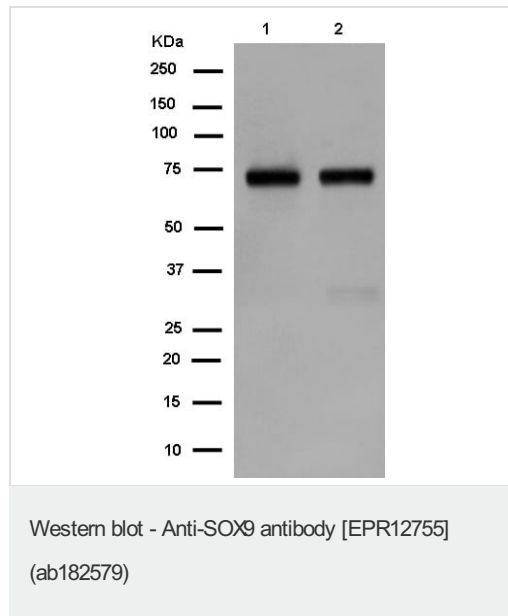
Function	Plays an important role in the normal skeletal development. May regulate the expression of other genes involved in chondrogenesis by acting as a transcription factor for these genes.
Involvement in disease	Defects in SOX9 are the cause of campomelic dysplasia (CMD1) [MIM:114290]. CMD1 is a rare, 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

All lanes : Anti-SOX9 antibody [EPR12755] (ab182579) at 1/10000 dilution

Lane 1 : SW480 cell lysate

Lane 2 : Caco 2 cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

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

Predicted band size: 56 kDa



All lanes : Anti-SOX9 antibody [EPR12755] (ab182579) at 1/80 dilution

Lane 1 : SW480 (Human colorectal adenocarcinoma epithelial cell) whole cell lysate, 10ug

Lane 2 : SW480, 350ug, +, ab182579 2ug

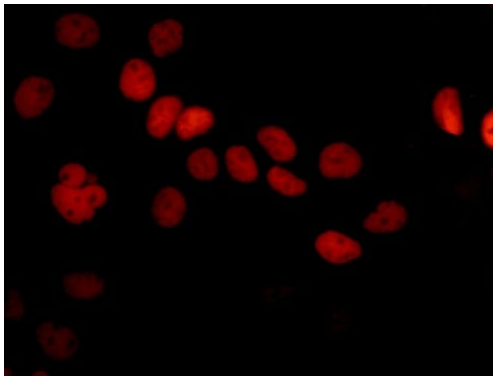
Lane 3 : SW480 cell lysate, 350ug + rabbit IgG (ab172730) , 2ug

Secondary

All lanes : VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/1000 dilution (VeriBlot for IP secondary antibody (HRP))

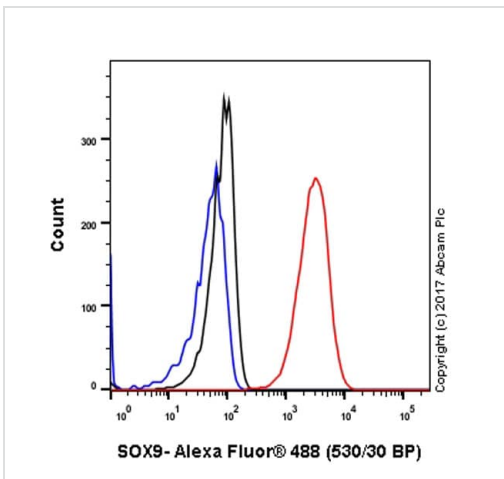
Observed band size: 75 kDa

[why is the actual band size different from the predicted?](#)



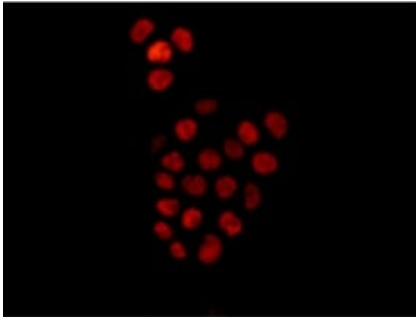
Immunocytochemistry/ Immunofluorescence - Anti-SOX9 antibody [EPR12755] (ab182579)

Immunofluorescent analysis of Caco 2 cells labeling SOX9 using ab182579 at 1/250 dilution. A Goat anti rabbit IgG (Alexa Fluor555) at 1/200 dilution was used as secondary antibody. Cells were fixed with 4% paraformaldehyde.



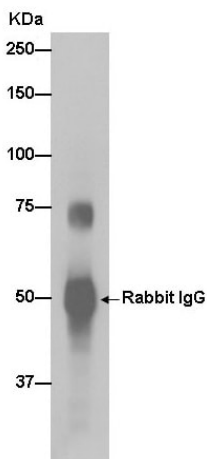
Flow Cytometry - Anti-SOX9 antibody [EPR12755] (ab182579)

Flow Cytometry analysis of SW480 (human colorectal adenocarcinoma) cells labeling SOX9 with purified ab182579 at 1/500 dilution (1 ug/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor[®] 488)(ab150077)(1/2000 dilution) was used as the secondary antibody. Rabbit monoclonal IgG (Black) (ab172730) was used as the isotype control, cells without incubation with primary antibody and secondary antibody (Blue) were used as the unlabeled control.



Immunocytochemistry/ Immunofluorescence - Anti-SOX9 antibody [EPR12755] (ab182579)

Immunofluorescence analysis of SW480 cells labeling SOX9 using ab182579 at 1/250 dilution. A Goat anti rabbit IgG (Alexa Fluor555) at 1/200 dilution was used as secondary antibody. Cells were fixed with 4% paraformaldehyde.



Immunoprecipitation - Anti-SOX9 antibody [EPR12755] (ab182579)

Detection of SOX9 by Western Blot of Immunoprecipitate. Caco 2 cell lysate immunoprecipitated using ab182579 at 1/50 dilution.

A Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 was used as secondary antibody.

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 [EPR12755] (ab182579)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors