

Product datasheet

Anti-SOX9 antibody [EPR12755] - BSA and Azide free ab250630

Recombinant RabMAb

7 Images

Overview

Product name	Anti-SOX9 antibody [EPR12755] - BSA and Azide free
Description	Rabbit monoclonal [EPR12755] to SOX9 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), ICC/IF, IP, WB
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
General notes	<p>ab250630 is the carrier-free version of ab182579.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <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>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR12755
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab250630 in the following tested applications.

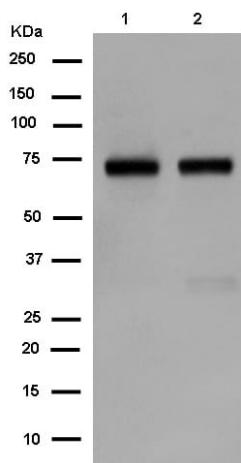
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 70 kDa (predicted molecular weight: 56 kDa).

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



Western blot - Anti-SOX9 antibody [EPR12755] - BSA and Azide free (ab250630)

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

Lane 1 : SW480 cell lysate

Lane 2 : Caco 2 cell lysate

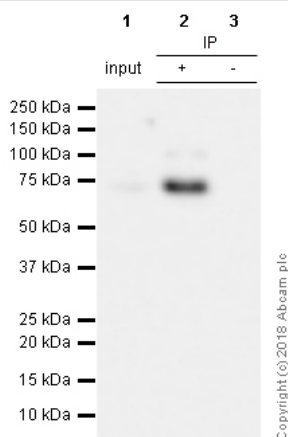
Lysates/proteins at 20 µg per lane.

Secondary

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

Predicted band size: 56 kDa

This data was developed using [ab182579](#), the same antibody clone in a different buffer formulation.



Immunoprecipitation - Anti-SOX9 antibody [EPR12755] - BSA and Azide free (ab250630)

This data was developed using [ab182579](#), the same antibody clone in a different buffer formulation.

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

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

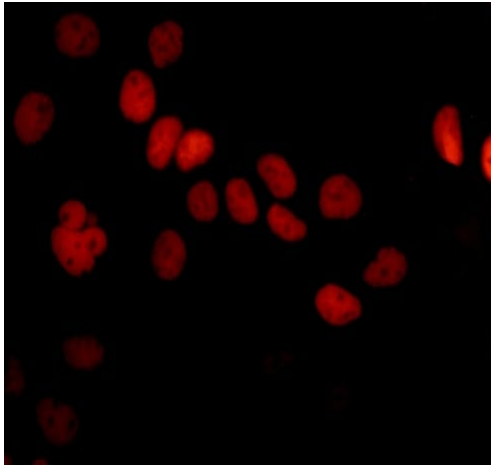
Lane 2 : SW480, 350ug, +, [ab182579](#) 2ug

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

Secondary

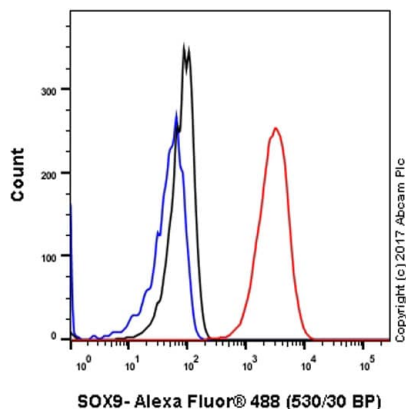
All lanes : VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) at 1/1000 dilution

Observed band size: 75 kDa



Immunocytochemistry/ Immunofluorescence - Anti-SOX9 antibody [EPR12755] - BSA and Azide free (ab250630)

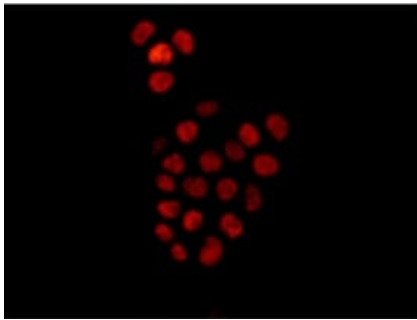
This data was developed using [ab182579](#), the same antibody clone in a different buffer formulation. Immunofluorescent analysis of Caco 2 cells labeling SOX9 using [ab182579](#) at 1/250 dilution. A Goat anti rabbit IgG (Alexa Fluor555) at 1/200 dilution was used as secondary antibody. Cells were fixed with 4% paraformaldehyde.



Flow Cytometry (Intracellular) - Anti-SOX9 antibody [EPR12755] - BSA and Azide free (ab250630)

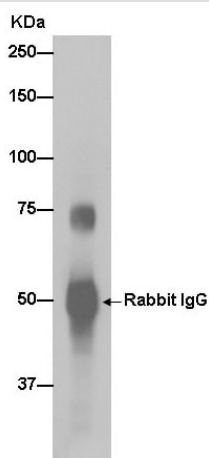
This data was developed using [ab182579](#), the same antibody clone in a different buffer formulation.

Intracellular Flow Cytometry analysis of SW480 (human colorectal adenocarcinoma) cells labeling SOX9 with purified [ab182579](#) at 1/500 dilution (1ug/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] - BSA and Azide free (ab250630)

This data was developed using [ab182579](#), the same antibody clone in a different buffer formulation. 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.

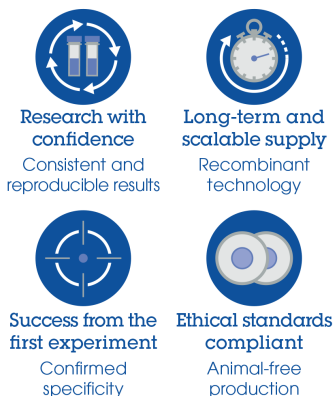


Immunoprecipitation - Anti-SOX9 antibody [EPR12755] - BSA and Azide free (ab250630)

This data was developed using [ab182579](#), the same antibody clone in a different buffer formulation. 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?



Anti-SOX9 antibody [EPR12755] - BSA and Azide free (ab250630)

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