

Product datasheet

Anti-SOX9 antibody [EPR12755-50] - C-terminal ab184547

Recombinant RabMAb

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Overview

Product name	Anti-SOX9 antibody [EPR12755-50] - C-terminal
Description	Rabbit monoclonal [EPR12755-50] to SOX9 - C-terminal
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), ICC/IF, WB
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	HepG2, SW480 and Caco2 cell lysates; Caco2 and HepG2 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>

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	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR12755-50
Isotype	IgG

Applications

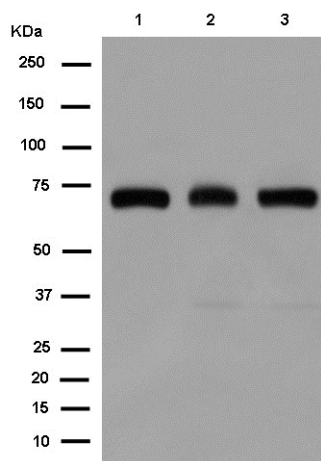
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab184547 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/200. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		1/500.
WB		1/10000 - 1/50000. 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 [EPR12755-50] - C-terminal (ab184547)

All lanes : Anti-SOX9 antibody [EPR12755-50] - C-terminal (ab184547) at 1/10000 dilution

Lane 1 : HepG2 cell lysate

Lane 2 : SW480 cell lysate

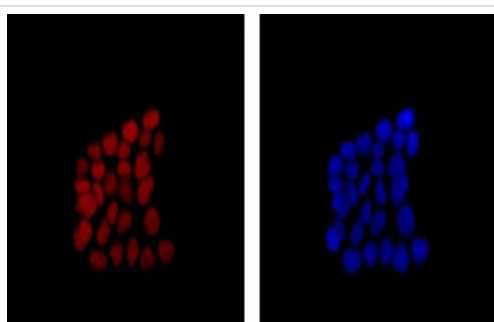
Lane 3 : Caco-2 cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

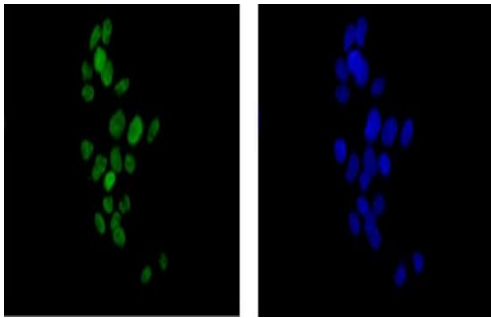
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 56 kDa



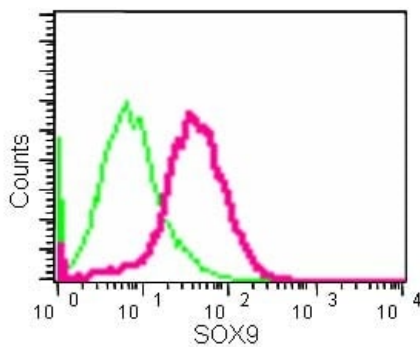
Immunocytochemistry/ Immunofluorescence - Anti-SOX9 antibody [EPR12755-50] - C-terminal (ab184547)

Immunofluorescence analysis of 4% paraformaldehyde-fixed Caco2 cells, labeling SOX9 with ab184547 at 1/500 dilution (red). Alexa Fluor®555-conjugated goat anti rabbit IgG was used as a secondary antibody at 1/200 dilution. Nuclei were counterstained with DAPI (blue).



Immunocytochemistry/ Immunofluorescence - Anti-SOX9 antibody [EPR12755-50] - C-terminal (ab184547)

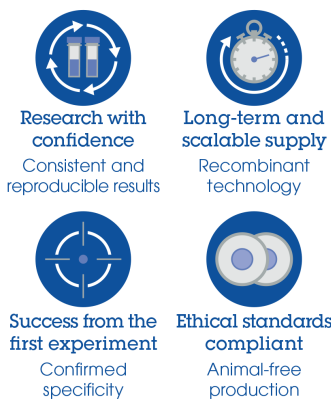
Immunofluorescence analysis of 4% paraformaldehyde-fixed HepG2 cells, labeling SOX9 with ab184547 at 1/500 dilution (green). Alexa Fluor®488-conjugated goat anti rabbit IgG was used as a secondary antibody at 1/200 dilution. Nuclei were counterstained with DAPI (blue).



Flow Cytometry (Intracellular) - Anti-SOX9 antibody [EPR12755-50] - C-terminal (ab184547)

Intracellular flow cytometric analysis of HepG2 cells (2% paraformaldehyde-fixed) labeling SOX9 with ab184547 at 1/200 dilution (red) or a rabbit IgG (negative) (green), followed by Goat anti rabbit IgG (FITC) secondary at 1/150 dilution.

Why choose a recombinant antibody?



Anti-SOX9 antibody [EPR12755-50] - C-terminal (ab184547)

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