

Product datasheet

Anti-SOX9 (phospho S181) antibody ab59252

★★★★★ [3 Abreviews](#) [20 References](#) [3 Images](#)

Overview

Product name	Anti-SOX9 (phospho S181) antibody
Description	Rabbit polyclonal to SOX9 (phospho S181)
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide corresponding to Human SOX9 aa 100-200 (phospho S181). (R-K-SP-V-K). Database link: P48436
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>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, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituents: PBS, 50% Glycerol, 0.87% Sodium chloride</p> <p>Without Mg+2 and Ca+2</p>
Purity	Immunogen affinity purified
Purification notes	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against the non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab59252 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
IHC-P		1/50 - 1/100.
WB	★★★★★ (2)	1/500 - 1/1000. Detects a band of approximately 56 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.

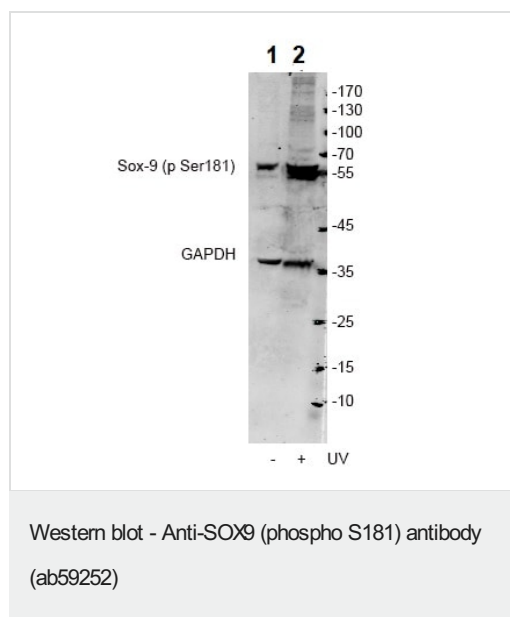
Sequence similarities

Contains 1 HMG box DNA-binding domain.

Cellular localization

Nucleus.

Images



All lanes : Anti-SOX9 (phospho S181) antibody (ab59252) at 1/5000 dilution

Lane 1 : HepG2 cell lysate

Lane 2 : HepG2 cell lysate treated with UV

Lysates/proteins at 50 µg per lane.

Secondary

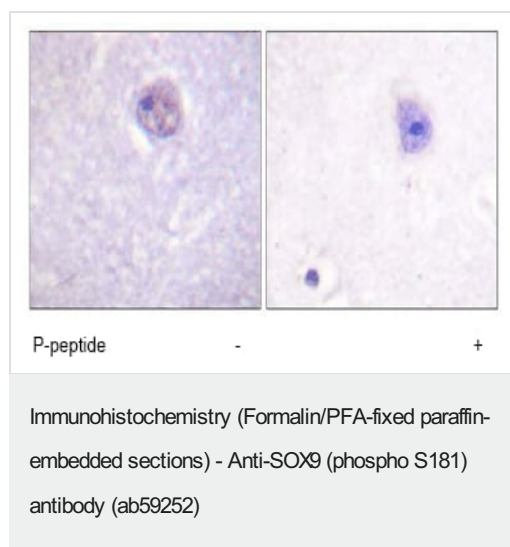
All lanes : Goat Anti-Rabbit IgG (H+L) HRP at 1/10000 dilution

Predicted band size: 56 kDa

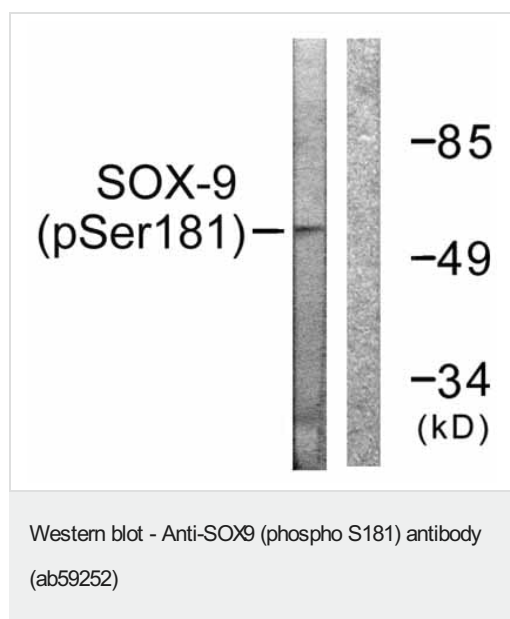
Loading control = GAPDH

10% SDS-PAGE

Primary incubation: 4°C overnight



ab59252 at 1/50 dilution staining SOX9 in human brain by Immunohistochemistry, Paraffin embedded tissue, in the absence or presence of the immunising peptide.



All lanes : Anti-SOX9 (phospho S181) antibody (ab59252) at 1/500 dilution

Lane 1 : 293 cell extracts treated with PBS (60mins)

Lane 2 : 293 cell extracts treated with PBS (60mins) with immunizing phospho-peptide

Predicted band size: 56 kDa

Observed band size: 56 kDa

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

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