Product name: Anti-SOX9 (phospho S181) antibody

Description: Rabbit polyclonal to SOX9 (phospho S181)

Host species: Rabbit

Specificity: Detects endogenous levels of SOX9 only when phosphorylated at serine 181.

Tested applications: Suitable for ELISA, IHC-P, WB, IHC-Fr, ICC/IF

Species reactivity: Reacts with Mouse, Chicken, Human


Database link: P48436

Positive control: IHC-P: Human brain. WB: 293 cells treated with PBS

Form: Liquid

Storage instructions: Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.

Storage buffer: pH: 7.40
Preservative: 0.02% Sodium azide
Constituents: PBS, 50% Glycerol, 0.87% Sodium chloride

Without Mg+2 and Ca+2

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

Our Abpromise guarantee covers the use of ab59252 in the following tested applications.
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.

Images

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

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

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