



Rabbit Anti-phospho-SOX9 (Ser181) antibody

SL5641R

Product Name:	phospho-SOX9 (Ser181)
Chinese Name:	磷酸化转录因子SOX9蛋白抗体
Alias:	SOX9 (phospho Ser181); SOX9 (phospho S181); p-SOX9 (phospho S181); SOX9(phospho S181); CMD 1; CMD1; CMPD 1; CMPD1; SOX 9; Sox9; SOX9_HUMAN; SRA 1; SRA1 antibody SRY (sex determining region Y) box 9 (campomelic dysplasia autosomal; SRY (sex determining region Y) box 9; SRY (sex determining region Y)-box 9; SRY (sex-determining region Y)-box 9 protein; Transcription factor SOX 9; Transcription factor SOX-9; transcription factor SOX9; campomelic dysplasia autosomal sex reversal.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	60kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated Synthesised phosphopeptide derived from human SOX9 around the phosphorylation site of Ser181:RK(p-S)VK
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

PubMed:[PubMed](#)

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Function:

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Subcellular Location:

Nucleus (Potential).

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.

Defects in SOX9 are the cause of 46,XX sex reversal type 2 (SRXX2) [MIM:278850]. SRXX2 is a condition in which male gonads develop in a genetic female (female to male sex reversal).

Similarity:

Contains 1 HMG box DNA-binding domain.

SWISS:

P48436

Gene ID:

6662

Database links:

[Entrez Gene: 374148](#)Chicken

[Entrez Gene: 6662](#)Human

[Entrez Gene: 20682](#)Mouse

[Entrez Gene: 140586](#)Rat

[Omim: 608160](#)Human

Product Detail:

[SwissProt: P48434](#)Chicken

[SwissProt: P48436](#)Human

[SwissProt: Q04887](#)Mouse

[Unigene: 647409](#)Human

[Unigene: 286407](#)Mouse

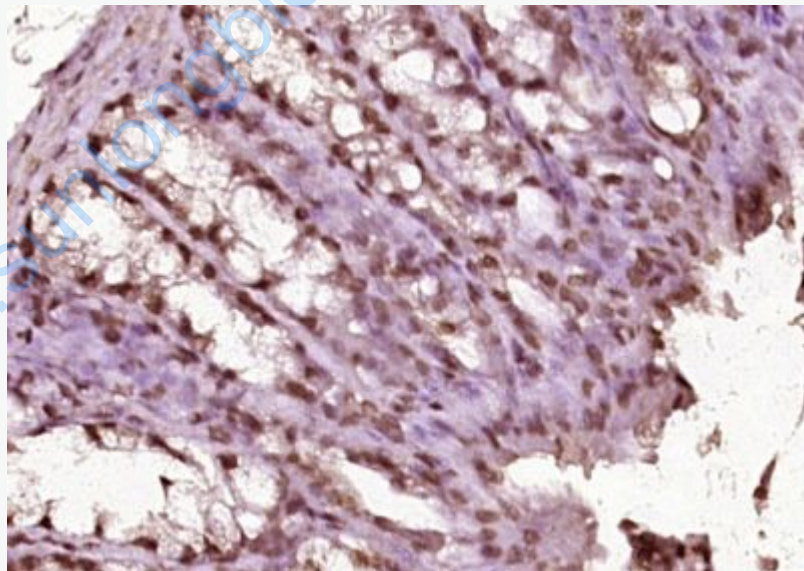
Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Sox9是软骨形成过程中一个十分关键的转录因子, 虽然已经有研究表明骨形成蛋白2(bone morphogenetic protein 2,BMP2)能诱导Sox9的表达。

有学者认为;Sox9蛋白很可能与椎间盘退变有着密切的关系, Sox9是Collagen protein合成过程中的一个重要的转录因子, 且在软骨的发育、成熟过程中对Collagen protein有着正向调控作用, Sox9蛋白在男性性腺调节睾丸发育中也有一定的作用。

Picture:



Paraformaldehyde-fixed, paraffin embedded (Mouse colon); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-SOX9(Ser181)) Polyclonal

	Antibody, Unconjugated (SL5641R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.
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