

产品名称: Sox-9 Rabbit Polyclonal Antibody
产品货号: APRab18144



产品概述 (Summary)

产品名称 (Production Name)	Sox-9 Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ICC/IF,ELISA
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	SOX9
别名 (Alternative Names)	SOX9; Transcription factor SOX-9
基因 ID (Gene ID)	6662.0
蛋白 ID (SwissProt ID)	P48436.The antiserum was produced against synthesized peptide derived from human SOX9. AA range:147-196

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:5000-1:10000
蛋白分子量 (Molecular Weight)	65kDa

研究背景 (Background)

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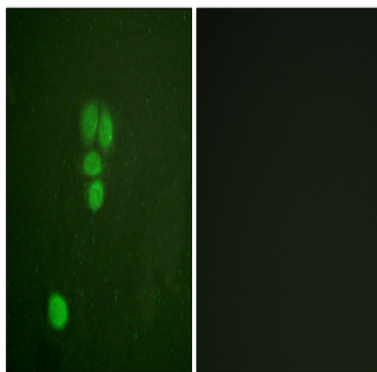


SRY-box 9(SOX9) Homo sapiens The protein encoded by this gene recognizes the sequence CCTTGAG along with other members of the HMG-box class DNA-binding proteins. It acts during chondrocyte differentiation and, with steroidogenic factor 1, regulates transcription of the anti-Muellerian hormone (AMH) gene. Deficiencies lead to the skeletal malformation syndrome campomelic dysplasia, frequently with sex reversal. [provided by RefSeq, Jul 2008],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.,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.,similarity:Contains 1 HMG box DNA-binding domain.,

研究领域 (Research Area)

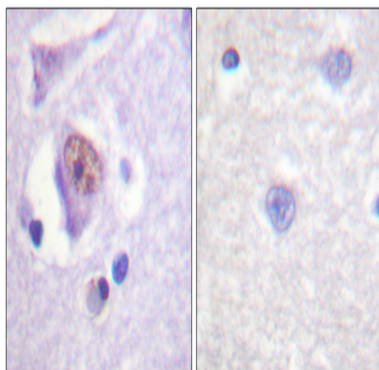
Epigenetics and Nuclear Signaling; Transcription; Domain Families; HMG Box; Neuroscience; Neurology process; Neurogenesis; Developmental Families; Stem Cells; Lineage Markers; Ectoderm; Neural Stem Cells; Intracellular; Mesenchymal Stem Cells; Chondrogenesis; Neural Crest Stem Cells; Developmental Biology; Reproduction; Sex determination; Placental development; Lineage specification; Ectoderm; Organogenesis; Skeletal development; Bone

图片 (Image Data)

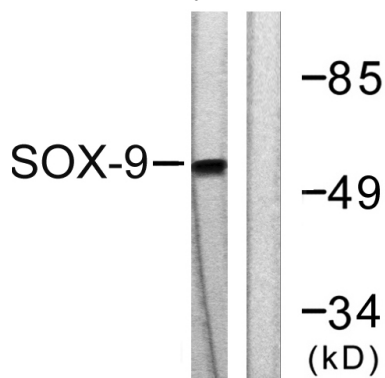


Immunofluorescence analysis of A549 cells, using SOX9 Antibody. The picture on the right is blocked with the synthesized peptide.

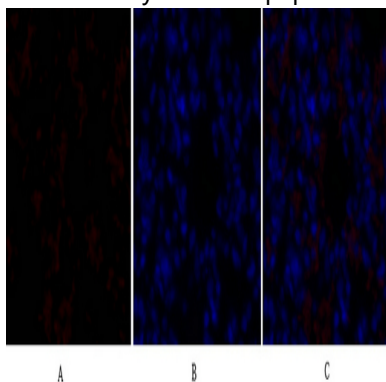
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Immunohistochemistry analysis of paraffin-embedded human brain tissue, using SOX9 Antibody. The picture on the right is blocked with the synthesized peptide.



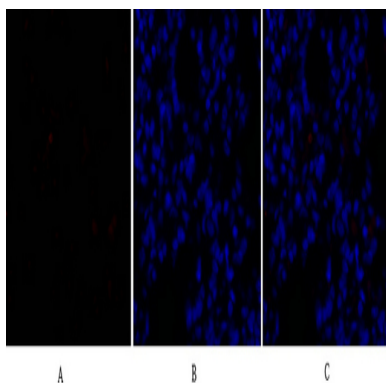
Western blot analysis of lysates from 293 cells, treated with PBS 60', using SOX9 Antibody. The lane on the right is blocked with the synthesized peptide.



Immunofluorescence analysis of rat-lung tissue. 1, Sox-9 Polyclonal Antibody (red) was diluted at 1:200 (4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min.

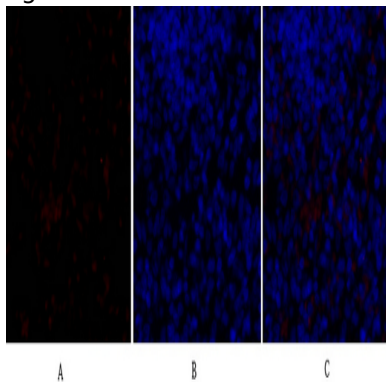
Picture A: Target. Picture B: DAPI. Picture C: merge of A+B

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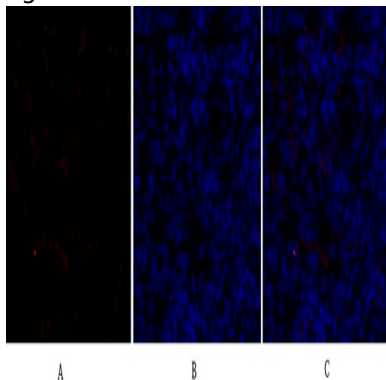
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Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



Immunofluorescence analysis of rat-spleen tissue. 1, Sox-9 Polyclonal Antibody (red) was diluted at 1:200 (4°C, overnight) .
2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min.

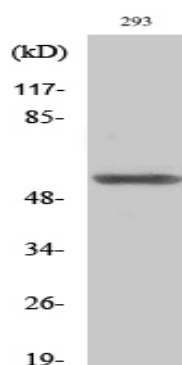
Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



Immunofluorescence analysis of rat-spleen tissue. 1, Sox-9 Polyclonal Antibody (red) was diluted at 1:200 (4°C, overnight) .
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Picture A: Target. Picture B: DAPI. Picture C: merge of A+B

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Western Blot analysis of various cells using Sox-9 Polyclonal Antibody diluted at 1: 2000 cells nucleus extracted by Minute
TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA) .

注意事项 (Note)

For research use only .