



SOX9 (ABT-SOX9) Mouse mAb

Catalog No	BYab-34720
Isotype	IgG
Reactivity	Human,Mouse,Rat,Bovine
Applications	IHC、ELISA
Gene Name	SOX9
Immunogen	Synthesized peptide derived from human SOX9 AA range: 1-100
Specificity	The antibody can specifically recognize human SOX9 protein. In western blotting of SW480 and HepG2 cell lysates, the antibody can label a 60 kDa band corresponding to SOX9.
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal,Mouse,IgG
Purification	Recombinant Antibody expressed in animal component-free (ACF) media, purified via Protein G affinity chromatography.
Dilution	IHC 1:200-1000; WB 1:500-2000; IF 1:100-500; ELISA 1:1000-5000 Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0 (Cat#YS0004)
Concentration	1mg/ml
Purity	≥90%
Storage Stability	-15°C to -25°C/1 year(Do not lower than -25°C)
Synonyms	SOX9;Transcription factor SOX-9;campomelic dysplasia autosomal sex reversal ; CMD 1 ; CMD1 ; CMPD 1 ; CMPD1 ; SOX 9 ; Sox9 ; SOX9_HUMAN ; SRA 1 ; SRA1 ; SRXX2 ; SRXY10 ; 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 ; SRY related HMG box gene 9 ; Transcription factor SOX 9 ; Transcription factor SOX-9 ; transcription factor SOX9
Observed Band	70kD
Calculated Molecular Weight	56kD
Cell Pathway	Nuclear
Tissue Specificity	Eye ,PNS ,Testis ,
Function	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. ,

Background

Sox9 is a transcription factor that plays a key role in chondrocyte differentiation and bone development. It is expressed in cartilage , neural crest , kidney and pancreas.

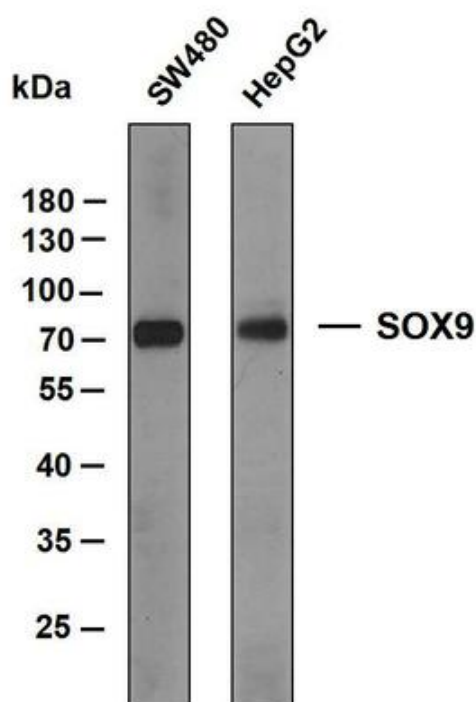
matters needing attention

Avoid repeated freezing and thawing!

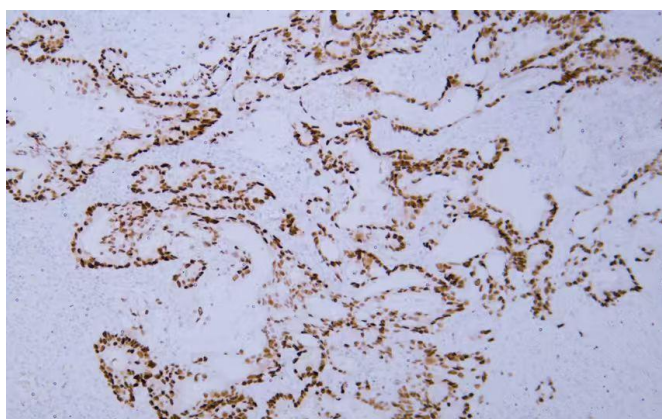
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

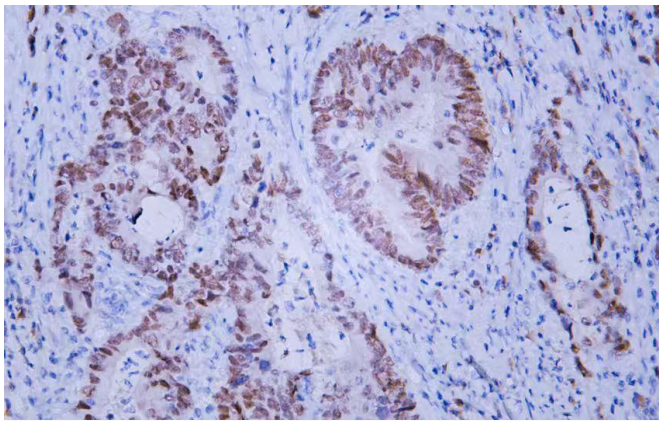
Products Images



Various whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-SOX9 antibody. The HRP-conjugated anti-Mouse IgG antibody was used to detect the antibody.



Human colon carcinoma tissue was stained with Anti-SOX9 (ABT-SOX9) Antibody



Human rectal carcinoma tissue was stained with Anti-SOX9 (ABT-SOX9) Antibody



Human gastric adenocarcinoma tissue was stained with Anti-SOX9 (ABT-SOX9) Antibody