

Basic Information

Product Name	Anti-SOX2 Antibody (Clone#BIO-19)	
Gene Name	SOX2	
Source	Rabbit	
Clonality	Monoclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, ICC/IF	
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.	
Immunogen	A synthesized peptide derived from human SOX2	
Concentration	500 ug/ml	
Purification	Affinity-chromatography	
Observed MW	34 kDa	
Dilution Ratios	Western blot (WB):	1:1000-2000
	Immunohistochemistry (IHC):	1:50-200
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-200

Storage

12 months from date of receipt, -20°C as supplied.

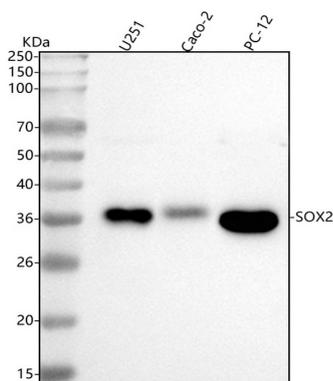
Background Information

Transcription factor that forms a trimeric complex with OCT4 on DNA and controls the expression of a number of genes involved in embryonic development such as YES1, FGF4, UTF1 and ZFP206 (By similarity). Critical for early embryogenesis and for embryonic stem cell pluripotency. May function as a switch in neuronal development. Downstream SRRT target that mediates the promotion of neural stem cell self-renewal (By similarity). Keeps neural cells undifferentiated by counteracting the activity of proneural proteins and suppresses neuronal differentiation (By similarity).

Reference

Anti-SOX2 Antibody (Clone#BIO-19)被引用在2文献中。

Selected Validation Data



Western blot analysis of anti-SOX2 antibody (BM4147). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human U251 whole cell lysates,

Lane 2: human Caco-2 whole cell lysates,

Lane 3: rat PC-12 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane.

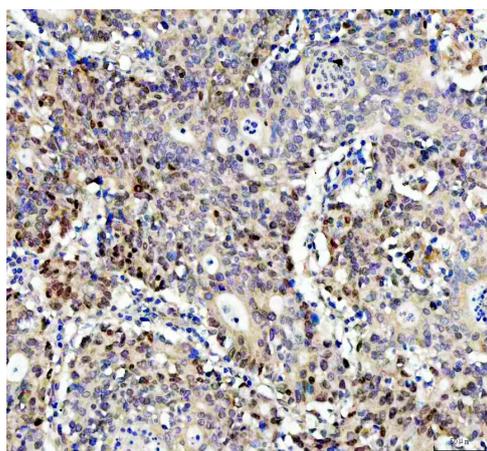
Then the membrane was incubated with rabbit anti-SOX2 antigen

affinity purified monoclonal antibody (BM4147) at a dilution of

1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus

Western Blotting Substrate (Catalog # AR1197). A specific band was detected for SOX2 at approximately 36 kDa. The expected band size

for SOX2 is at 34 kDa.



IHC analysis of SOX2 using anti-SOX2 antibody (BM4147).

SOX2 was detected in a paraffin-embedded section of human lung

cancer tissue. The tissue section was incubated with rabbit anti-

SOX2 Antibody (BM4147) at a dilution of 1:200 and developed using

HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog #

SV0002) with DAB (Catalog # AR1027) as the chromogen.

Product datasheet

Anti-SOX2 Antibody (Clone#BIO-19)

Catalog Number: **BM4147**

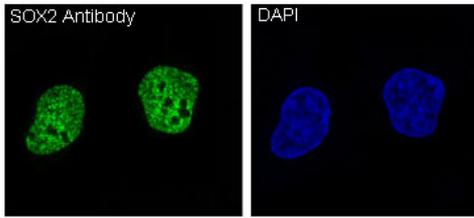
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Immunofluorescent analysis of NCCIT cells, using SOX2 Antibody.