

# [KO Validated] SOX2 Rabbit pAb

Catalog No.: A0561 **KO** **Validated** **10 Publications**

## Basic Information

**Catalog No.**

A0561

**Observed MW**

35KDa

**Calculated MW**

34kDa

**Category**

Primary antibody

**Applications**

WB, IHC, IF, IP

**Cross-Reactivity**

Human, Mouse, Rat

## Recommended Dilutions

<b>WB</b>	1:500 - 1:2000
<b>IHC</b>	1:50 - 1:200
<b>IF</b>	1:50 - 1:200
<b>IP</b>	1:50 - 1:200

## Contact

[www.abclonal.com](http://www.abclonal.com)

## Background

This intronless gene encodes a member of the SRY-related HMG-box (SOX) family of transcription factors involved in the regulation of embryonic development and in the determination of cell fate. The product of this gene is required for stem-cell maintenance in the central nervous system, and also regulates gene expression in the stomach. Mutations in this gene have been associated with optic nerve hypoplasia and with syndromic microphthalmia, a severe form of structural eye malformation. This gene lies within an intron of another gene called SOX2 overlapping transcript (SOX2OT).

## Immunogen Information

**Gene ID**

6657

**Swiss Prot**

P48431

**Immunogen**

Recombinant fusion protein containing a sequence corresponding to amino acids 1-140 of human SOX2 (NP\_003097.1).

**Synonyms**

ANOP3;MCOPS3;SOX2;SRY-box 2

## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

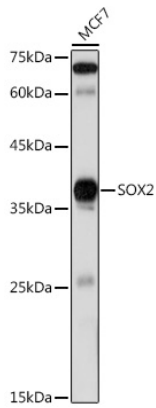
Affinity purification

**Storage**

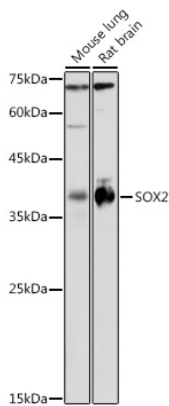
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

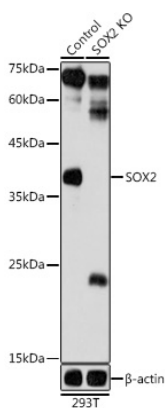
## Validation Data



Western blot analysis of extracts of MCF7 cells, using SOX2 antibody (A0561) at 1:1000 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25ug per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 60s.

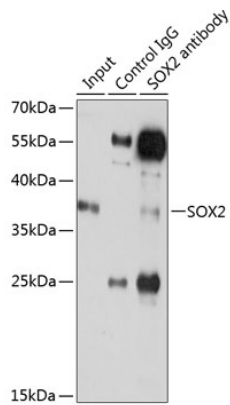


Western blot analysis of extracts of various cell lines, using SOX2 antibody (A0561) at 1:1000 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25ug per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 180s.

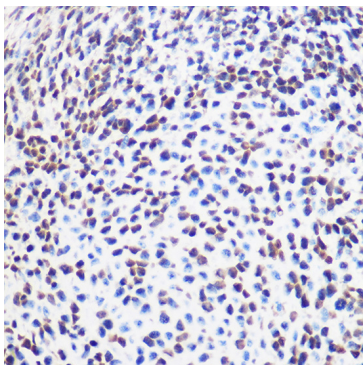


Western blot analysis of extracts from normal (control) and SOX2 knockout (KO) 293T cells, using SOX2 antibody (A0561) at 1:1000 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25ug per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 60s.

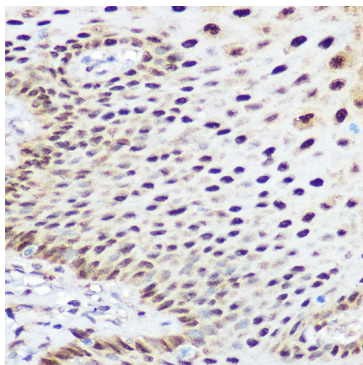
## Validation Data



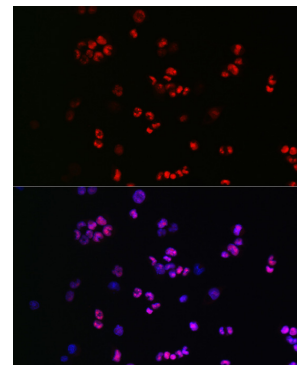
Immunoprecipitation analysis of 200ug extracts of C6 cells using 3ug SOX2 antibody (A0561). Western blot was performed from the immunoprecipitate using SOX2 antibody (A0561) at a dilution of 1:500.



Immunohistochemistry of paraffin-embedded mouse embryos using [KO Validated] SOX2 Rabbit pAb (A0561) at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded human esophageal using [KO Validated] SOX2 Rabbit pAb (A0561) at dilution of 1:100 (40x lens).



Immunofluorescence analysis of F9 cells using [KO Validated] SOX2 Rabbit pAb (A0561) at dilution of 1:50 (40x lens). Blue: DAPI for nuclear staining.