

## SOX-2 (Phospho Ser250/251) Rabbit pAb

CatalogNo: YP1503

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse

#### Applications

- WB, IHC

#### MW

- 35kD (Observed)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

WB 1:500-2000

IHC 1:50-300

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** Synthesized phospho peptide around human Sox2 (Ser250 and Ser251)

**Specificity** This antibody detects endogenous levels of SOX-2 only when phosphorylated at Ser250/Ser251, and dually phosphorylated at two sites.

### Target Information

**Gene name** SOX2

**Protein Name** Sox2 (Ser250/Ser251)

Organism	Gene ID	UniProt ID
Human	<a href="#">6657</a> ;	<a href="#">P48431</a> ;
Mouse	<a href="#">20674</a> ;	<a href="#">P48432</a> ;

**Cellular Localization**

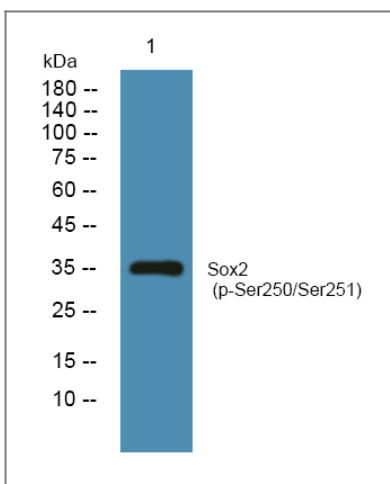
Nucleus speckle . Cytoplasm . Nucleus . Acetylation contributes to its nuclear localization and deacetylation by HDAC3 induces a cytoplasmic delocalization (By similarity) . Colocalizes in the nucleus with ZNF208 isoform KRAB-O and tyrosine hydroxylase (TH) (By similarity) . Colocalizes with SOX6 in speckles. Colocalizes with CAML in the nucleus (By similarity) . Nuclear import is facilitated by XPO4 , a protein that usually acts as a nuclear export signal receptor (By similarity) . .

**Tissue specificity** Fetal brain ,Lung ,Retina ,

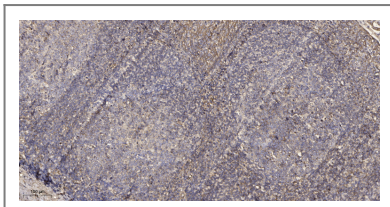
**Function**

Disease:Defects in SOX2 are the cause of microphthalmia syndromic type 3 (MCOPS3) [MIM:206900]. Microphthalmia is a clinically heterogeneous disorder of eye formation , ranging from small size of a single eye to complete bilateral absence of ocular tissues (anophthalmia) . In many cases , microphthalmia/anophthalmia occurs in association with syndromes that include non-ocular abnormalities. MCOPS3 is characterized by the rare association of malformations including uni- or bilateral anophthalmia or microphthalmia , and esophageal atresia with trachoesophageal fistula. ,Function: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. Critical for early embryogenesis and for embryonic stem cell pluripotency. ,online information:Sox2 entry ,PTM:Sumoylation inhibits binding on DNA and negatively regulates the FGF4 transactivation. ,similarity:Contains 1 HMG box DNA-binding domain. ,

## Validation Data



Western blot analysis of lysates from SH-SY5Y cells, primary antibody was diluted at 1:1000, 4°C over night



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200 (4°C overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200 (room temperature, 45min).

## Contact information

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Telephone: 400-8787-807(China)  
Website: <http://www.immunoway.com.cn>  
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



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