

## SOX-2 (PTR1367) Mouse mAb

CatalogNo: YM4472 **Recombinant** 

### Key Features

#### Host Species

- Mouse

#### Reactivity

- Human, Mouse

#### Applications

- WB, IF, ELISA

#### MW

- 34kD (Calculated)
- 34kD (Observed)

#### Isotype

- IgG1, Kappa

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

### Recommended Dilution Ratios

**WB 1:500-2000. IF 1:100-500. ELISA 1:1000-5000.**

### Basic Information

**Clonality** Monoclonal**Clone Number** PTR1367

### Immunogen Information

**Immunogen** Recombinant protein**Specificity** This antibody detects endogenous levels of SOX-2 protein.

### Target Information

**Gene name** SOX2

**Protein Name** Transcription factor SOX-2

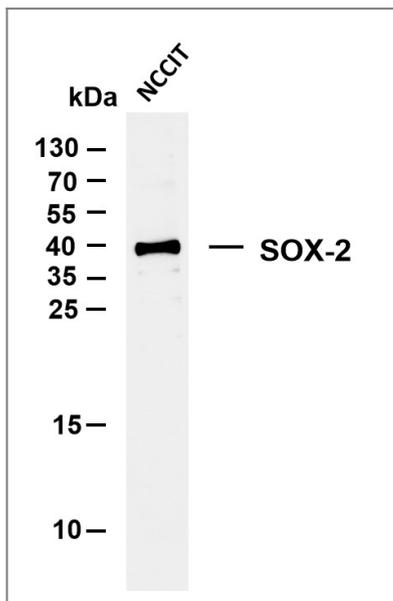
| Organism | Gene ID                | UniProt ID              |
|----------|------------------------|-------------------------|
| Human    | <a href="#">6657;</a>  | <a href="#">P48431;</a> |
| Mouse    | <a href="#">20674;</a> | <a href="#">P48432;</a> |

**Cellular Localization** Nuclear

**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



Whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-SOX-2 (PTR1367) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: NCCIT Predicted band size: 34kDa Observed band size: 34kDa

## Contact information

Orders: order@immunoway.com  
Support: tech@immunoway.com  
Telephone: 877-594-3616 (Toll Free), 408-747-0185  
Website: http://www.immunoway.com  
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



Please scan the QR code  
to access additional  
product information:  
**SOX-2 (PTR1367)**  
**Mouse mAb**

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