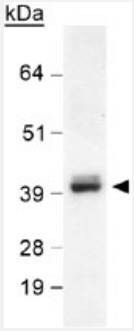
# SOX2 polyclonal antibody

Catalog # PAB12025 Size 100 uL

## Applications




### Western Blot (Tissue lysate)

Western blot analysis of SOX2 in mouse brain lysate with SOX2 polyclonal antibody at 0.5 ug/mL (Cat # PAB12025).

## Specification

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| **Product Description** | Rabbit polyclonal antibody raised against synthetic peptide of SOX2. |
| **Immunogen** | A synthetic peptide corresponding to amino acids 1-100 of human SOX2. |
| **Host** | Rabbit |
| **Reactivity** | Chicken, Human, Mouse, Sheep, Xenopus, Zebra fish |
| **Form** | Liquid |
| **Quality Control Testing** | Antibody Reactive Against Synthetic Peptide. |
| **Recommend Usage** | Flow Cytometry (1:100)<br>Immunocytochemistry (1:125-1:250)<br>Immunofluorescence (1:50-1:200)<br>Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:125-1:250)<br>Western Blot (0.5 ug/mL)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In Tris-glycine, 150 mM NaCl (0.05% sodium azide) |
| **Storage Instruction** | Store at -20°C or -80°C.<br>Aliquot to avoid repeated freezing and thawing. |

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| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Western Blot (Tissue lysate)

  Western blot analysis of SOX2 in mouse brain lysate with SOX2 polyclonal antibody at 0.5 ug/mL (Cat # PAB12025).

- Immunohistochemistry

## Gene Info — SOX2

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|---|---|
| **Entrez GeneID** | 6657 |
| **Protein Accession#** | P48431 |
| **Gene Name** | SOX2 |
| **Gene Alias** | ANOP3, MCOPS3, MGC2413 |
| **Gene Description** | SRY (sex determining region Y)-box 2 |
| **Omim ID** | 184429 206900 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | This intronless gene encodes a member of the SRY-related HMG-box (SOX) family of transcriptio n 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 malfor mation. This gene lies within an intron of another gene called SOX2 overlapping transcript (SOX2 OT). [provided by RefSeq |
| **Other Designations** | SRY-related HMG-box gene 2\|sex-determining region Y-box 2\|transcription factor SOX2 |

## Disease

- Anophthalmos
- Coloboma
- Diabetes Mellitus

- Diabetic Nephropathies
- Genetic Predisposition to Disease
- Kidney Failure
- Microphthalmos
- Myopia