

SOX2 polyclonal antibody

Catalog # PAB12735 Size 100 ug

Applications



Western Blot (Tissue lysate)

The tissue lysate derived from embryonic mouse brain immunoblotted by SOX2 polyclonal antibody (Cat # PAB12735) at 1 : 500.

Specification

Product Description Rabbit polyclonal antibody raised against synthetic peptide of SOX2.

Immunogen A synthetic peptide corresponding to N-terminus of human SOX2.

Host Rabbit

Theoretical MW (kDa) 35

Reactivity Human, Mouse, Rat

Specificity This antibody recognizes ~35 KDa of human SOX2.

Form Liquid

Quality Control Testing Antibody Reactive Against Synthetic Peptide.

Recommend Usage
 Western Blot (0.1-1 ug/mL)
 ELISA (0.01-0.1 ug/mL)
 Immunoprecipitation (2-5 ug/mL)
 Immunohistochemistry (2-5 ug/mL)
 The optimal working dilution should be determined by the end user.

Storage Buffer In TBS, pH 7.2 (BSA, 10% Proclin300)

Storage Instruction

Store at 4°C. For long term storage store at -20°C or lower.
Aliquot to avoid repeated freezing and thawing.

Applications

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- Immunohistochemistry

- Immunoprecipitation

- Enzyme-linked Immunoabsorbent Assay

Gene Info — SOX2

Entrez GeneID	6657
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Gene Name	SOX2
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Gene Alias	ANOP3, MCOPS3, MGC2413
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Gene Description	SRY (sex determining region Y)-box 2
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Omim ID	184429 206900
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Gene Ontology	Hyperlink
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Gene Summary	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 (SOX2 OT). [provided by RefSeq]
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Other Designations	SRY-related HMG-box gene 2 sex-determining region Y-box 2 transcription factor SOX2
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Publication Reference

- [Sox-2 is expressed by neural progenitors and astroglia in the adult rat brain.](#)

Komitova M, Eriksson PS.

Neuroscience Letters 2004 Oct; 369(1):24.

Application: IHC, Rat, Rat brains

Disease

- [Anophthalmos](#)
- [Coloboma](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)
- [Microphthalmos](#)
- [Myopia](#)