

## Anti-SOX-2 Antibody (7C478)

### Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	7C478
Purification:	Protein A

### Applications

Verified Activity:	1. Immunochemical staining of human SOX2 in human testis with rabbit monoclonal antibody (1:300, formalin-fixed paraffin embedded sections).
	2. Immunochemical staining of human SOX2 in human brain with rabbit monoclonal antibody (1:300, formalin-fixed paraffin embedded sections).
Application:	IHC-P
Recommended	IHC-P: 1:100-1:500

### Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen:	A synthetic peptide: N-terminus of the human Sox2.
Antigen Species:	Human

### Research Background

SOX2 is a member of the SOXB1 subfamily of transcription factors most notably involved in the reprogramming of somatic cells into induced pluripotent stem cells. Housed on chromosome 3, the SOX2 gene encodes for a protein with a C-terminal transcriptional activation domain and a DNA-binding HMG domain that contains a nuclear localization/export signal. SOX2 forms a trimeric complex with OCT4 on DNA and controls the expression of a number of genes involved in embryonic development and pluripotency such as YES1, FGF4, UTF1 and ZFP206. Mutations in this gene have been associated with bilateral eye disease. SOX2 antigen and antibody were found in small-cell lung cancer cell lines and sera. However, neither exists in normal sera, suggesting that SOX2 might be a potential tumor target or marker.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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