

## SOX-2 (Clone ZM57) Mouse Monoclonal Antibody

**Specificity:** Human. Others not known

**Immunogen:** Recombinant human SOX2 protein fragment (around aa176-305)

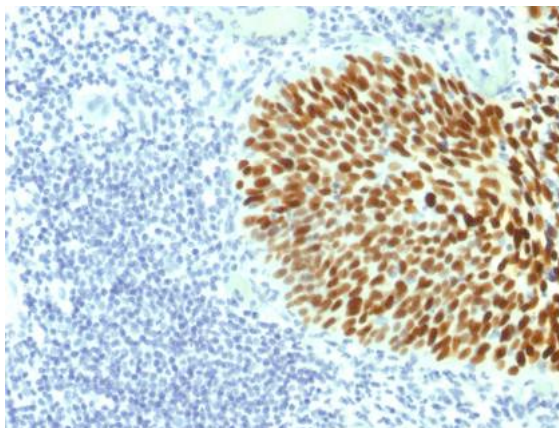
**Ig Class:** IgG2b/ $\kappa$

**Storage:** Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months

**Staining procedures:** Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions:* Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. *Detection methods:* Polymer anti-mouse/rabbit Ig detection system. *Working dilution:* 1:100-200; *Positive Control:* Normal brain tissue and astrocytoma. *Cellular Localization:* Nuclear. *Intended Use:* In vitro diagnosis (IVD).

**Description:** SOX2 is 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. It is required for stem-cell maintenance in the central nervous system, and also regulates gene expression in the stomach. SOX2 is necessary for regulating multiple transcription factors that affect Oct3/4 expression. An essential function of SOX2 is to stabilize embryonic stem cells in a pluripotent state by maintaining the requisite level of Oct3/4 expression. SOX-2 is expressed in teratoma and CNS astrocytic tumors.

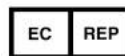
**Supplied As:** Purified antibody with 0.2% BSA and 15mM sodium azide.



*Formalin-fixed, paraffin-embedded human basal cell carcinoma stained with anti-SOX-2 antibody using peroxidase-conjugate and DAB chromogen. Note the nuclear staining of tumor cells*

Cat. #Z2367 (1.0 ml)

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