

Product Information

Anti-Sox2 antibody, Mouse monoclonal
clone SOX2-6, purified from hybridoma cell culture

Product Number **S1451**

Product Description

Monoclonal Anti-SOX2 (mouse IgG1 isotype) is derived from the hybridoma SOX2-6 produced by the fusion of mouse myeloma cells and splenocytes from BALB/c mice immunized with a synthetic peptide corresponding a fragment of human SOX2 (GeneID: 6657), conjugated to KLH. The corresponding sequence is identical in mouse and rat. The isotype is determined by ELISA using Mouse Monoclonal Antibody Isotyping Reagents, Product Number ISO2. The antibody is purified from culture supernatant of hybridoma cells grown in a bioreactor.

Monoclonal Anti-SOX2 recognizes human and mouse SOX2. The antibody may be used in various immunochemical techniques including immunoblotting (~35 kDa).

Transcription factor 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. Mutations in the SOX2 gene have been associated with bilateral anophthalmia, a severe form of structural eye malformation. When SOX-2 is expressed in self-renewing progenitor cells, it acts to inhibit neuronal differentiation. Conversely, active repression of SOX-2 induces neural differentiation.¹⁻²

Reagent

Supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 15 mM sodium azide as a preservative.

Antibody concentration: ~1.0 mg/mL

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses.

Storage/Stability

Store at -20 °C. For continuous use, the product may be stored at 2-8 °C for up to one month. For extended storage, freeze at -20 °C in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile

Immunoblotting: a working antibody concentration of 0.5-1.0 µg/mL is recommended using a whole extract of human NT2 cells.

Note: In order to obtain best results in various techniques and preparations, it is recommended to determine optimal working dilutions by titration.

References

1. Bylund, M. et al., *Nature Neurosci.*, **6**, 1162-1168 (2003).
2. Chassaing, N. et al., *Am. J. Med. Genet.*, **143**, 289-291 (2007).

VS,ST,TD,KAA,PC,MAM 05/20-1