

## Mouse Monoclonal Antibody to SOX2

**Catalogue Number** sAP-0218

**Target Molecule** **Name:** SOX2

**Aliases:** ANOP3; MCOPS3; MGC2413

**MW:** 34.3kDa

**Entrez Gene ID: 6657**

**Description** SOX2: SRY (sex determining region Y)-box 2. Entrez Protein NP\_003097. It 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. 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 (SOX2OT).

**Immunogen** Purified recombinant fragment of SOX2 (aa1-170) expressed in E. Coli.

**Reactive Species** Human

**Clone** MM10F10C9;

**Size and Concentration** 100µg/1mg/ml

**Supplied as** Lyophilized Powder from 100µl of Ascitic fluid containing 0.03% sodium azide. ;

**Reconstitution/Storages** Reconstituted with 100µl sterile DI H2O, at stored at 4°C or -20°C for short or long term storage

**Applications** ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000

**Shipping** Regular FEDEX overnight shipment (ambient temperature)

**Reference** 1. Exp Neurol. 2007 Apr;204(2):828-31. ; 2. Nature. 2008 Jan 10;451(7175):141-6.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**