

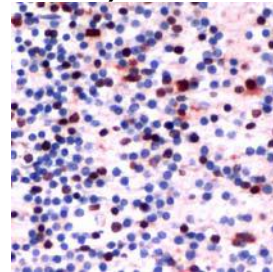
## Rabbit Anti-Human SOX-2 Monoclonal Antibody (Clone SP76)

**CATALOG #:**

**M3760** 0.1 ml rabbit monoclonal antibody purified by protein A/G in PBS/1% BSA buffer pH 7.6 with less than 0.1% sodium azide.

**M3764** 1 ml rabbit monoclonal antibody purified by protein A/G in PBS/1% BSA buffer pH 7.6 with less than 0.1% sodium azide.

**M3761** 7 ml pre-diluted rabbit monoclonal antibody purified by protein A/G in TBS/1% BSA buffer pH 7.6 with less than 0.1% sodium azide. (For IHC only)



Human newborn brain stained with anti-SOX-2 antibody



Western Blot analysis of MCF7 cell lysate with SOX-2 antibody

**INTENDED USE:**

For Research Use Only. Not for use in diagnostic procedures.

**CLONE:**

SP76

**IMMUNOGEN:**

A synthetic peptide corresponding to N-terminus of human SOX-2 protein.

**IG ISOTYPE:**

Rabbit IgG

**EPITOPE:**

N-terminus

**MOLECULAR WEIGHT**

34kDa

**SPECIES REACTIVITY:**

Human (tested). Others not tested.

**DESCRIPTION:**

SOX-2 is also known as SRY related HMG BOX gene 2. All SOX proteins have a single HMG box and bind linear DNA in a sequence-specific manner, resulting in the bending of DNA through large angles. Bending causes the DNA helix to open for some distance, which may affect binding and interactions of other transcription factors. SOX-1, SOX-2 and SOX-3 show the closest homology to SRY. They share maximum homology within the HMG domain and are expressed mainly in the developing nervous system of the mouse. These genes share significant homology outside the HMG box also and are highly conserved throughout their evolution.

**APPLICATIONS:**

Immunohistochemistry (IHC) and Western Blotting

**IHC PROCEDURE:**

**Specimen Preparation:** Formalin-fixed, paraffin-embedded tissues are suitable for use with this primary antibody.

**Deparaffinization:** Deparaffinize slides using xylene or xylene alternative and graded alcohols.

**Antibody Dilution:** If using the concentrate format of this product, dilute the antibody 1:100. The dilutions are estimates; actual results may differ because of variability in methods and protocols.

**Antigen Retrieval:** Boil tissue section in 10mM citrate buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

**Primary Antibody Incubation:** Incubate for 30 minutes at RT.

**Slide Washing:** Slides must be washed in between steps. Rinse slides with PBS/0.05% Tween.

**Visualization:** Detect the antibody as instructed by the instructions provided with the visualization system.

**WESTERN BLOTTING:**

Recommended starting protocol: Dilute the antibody 1:25. Incubate for 1 hour at room temperature. The dilution is an estimate; actual results may differ because of variability in methods and protocols. Optimal dilution and procedure should be determined by the end user.

**POSITIVE CONTROL:**

New born brain

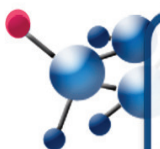
**CELLULAR LOCALIZATION:**

Nucleus

**STORAGE & STABILITY**

Store at 2-8°C. Do not freeze. The user must validate any other storage conditions. When properly stored, the reagent is stable to the date indicated on the label. Do not use the reagent beyond the expiration date.

There are no definitive signs to indicate instability of this product; therefore, positive and negative controls should be tested simultaneously with unknown specimens.


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**WARNINGS &  
PRECAUTIONS:**

1. Avoid contact of reagents with eyes and mucous membranes. If reagents come into contact with sensitive areas, wash with copious amounts of water.
2. This product is harmful if swallowed.
3. Consult local or state authorities with regard to recommended method of disposal.
4. Avoid microbial contamination of reagents.

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