

DESCRIPTION

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| Species Reactivity | Human/Mouse/Rat |
| Specificity | Detects human, mouse, and rat SOX2 in Western blots. |
| Source | Monoclonal Mouse IgG _{2A} Clone # 245610 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | <i>E. coli</i> -derived recombinant human SOX2 Gly135-Met317 Accession # P48431 |
| Conjugate | Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 nm |
| Formulation | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

| | Recommended Concentration | Sample |
|--|---------------------------------|--|
| Intracellular Staining by Flow Cytometry | 0.25-1 µg/10 ⁶ cells | Ntera-2 human embryonic carcinoma cell line fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005) |

PREPARATION AND STORAGE

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| Shipping | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| Stability & Storage | Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied. |

BACKGROUND

SOX2 belongs to the SOX (SRY-like HMG box) family of transcription factors with diverse roles in development. SOX2 functions in specifying the first three lineages present at implantation and in regulating proliferation and differentiation in the developing peripheral nervous system (1-6).

References:

- Graham, V. *et al.* (2003) *Neuron* **39**:749.
- Avilion, A.A. *et al.* (2003) *Genes Dev.* **17**:126.
- Kishi, M. *et al.* (2000) *Development* **127**:791.
- Yuan, H. *et al.* (1995) *Genes Dev.* **9**:2635.
- Uwanogho, D. *et al.* (1995) *Mech. Dev.* **49**:23.
- Stevanovic, M. (2003) *Mol. Biol. Rep.* **30**:127.

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