

Product datasheet

Anti-SOX2 antibody ab69893

★★★★☆ 1 Abreviews 1 References 1 Image

Overview

Product name	Anti-SOX2 antibody
Description	Rabbit polyclonal to SOX2
Host species	Rabbit
Tested applications	Suitable for: ICC, WB, Flow Cyt
Species reactivity	Reacts with: Mouse, Rat, Human Predicted to work with: Sheep, Chicken, Xenopus laevis, Zebrafish, a wide range of other species
Immunogen	Synthetic peptide: KEHPDYKYRPRRKT , corresponding to amino acids 103-117 of Human SOX2. This sequence is identical to amino acids 113-127 of Human SOX1. Run BLAST with Run BLAST with
Positive control	Normal human brain lysate.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab69893** in the following tested applications.

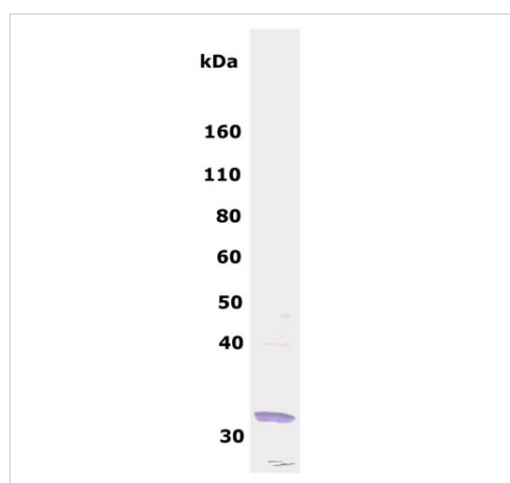
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC	★★★★☆	Use at an assay dependent concentration. See Abreview.
WB		1/500. Detects a band of approximately 34 kDa (predicted molecular weight: 34 kDa).
Flow Cyt		Use at an assay dependent concentration. PubMed: 22741033 ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.

Target

Function	Transcription factor that forms a trimeric complex with OCT4 on DNA and controls the expression of a number of genes involved in embryonic development such as YES1, FGF4, UTF1 and ZFP206 (By similarity). Critical for early embryogenesis and for embryonic stem cell pluripotency.
Involvement in disease	Defects in SOX2 are the cause of microphthalmia syndromic type 3 (MCOPS3) [MIM:206900]. Microphthalmia is a clinically heterogeneous disorder of eye formation, ranging from small size of a single eye to complete bilateral absence of ocular tissues (anophthalmia). In many cases, microphthalmia/anophthalmia occurs in association with syndromes that include non-ocular abnormalities. MCOPS3 is characterized by the rare association of malformations including uni- or bilateral anophthalmia or microphthalmia, and esophageal atresia with trachoesophageal fistula.
Sequence similarities	Contains 1 HMG box DNA-binding domain.
Post-translational modifications	Sumoylation inhibits binding on DNA and negatively regulates the FGF4 transactivation.
Cellular localization	Nucleus.

Images



Anti-SOX2 antibody (ab69893) at 1/500 dilution + normal human brain lysate at 10 µg

Predicted band size: 34 kDa

Observed band size: 34 kDa

Western blot - Anti-SOX2 antibody (ab69893)

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