

Product datasheet

Recombinant Human SOX2 protein ab79950

[2 Images](#)

Description

Product name	Recombinant Human SOX2 protein
Purity	> 95 % SDS-PAGE. ab79950 is greater than 95% by SDS-PAGE gel and HPLC analyses. Endotoxin level is less than 0.1 ng per µg (1EU/µg).
Endotoxin level	< 0.100 Eu/µg
Expression system	Escherichia coli
Accession	<u>P48431</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	<pre>MYNMMETELK PPGPQQTSGG GGGNSTAAAA GGNQKNSPDR VKRPMNAFMV WSRGQRRKMA QENPKMHNSE ISKRLGAEWK LLSETEKRPF IDEAKRLRAL HMKEHPDYKY RPRRKTkTLM KKDKYTLP GG LLAPGGNSMA SGVGVGAGLG AGVNQRMDSY AHMNGWSNGS YSMMQDQLGY PQHPGLNAHG AAQMMPMHRY DVSALQYNM TSSQTYMNGS PTYSMSYSQQ GTPGMALGSM GSVVKSEASS SPPVVTSSSH SRAPCQAGDL RDMISMYLPG AEVPEPAAPS RLHMSQHYQS GPVPGTAING TLPLSHM</pre>
Amino acids	1 to 317

Specifications

Our **Abpromise guarantee** covers the use of **ab79950** in the following tested applications.

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

Applications	Sandwich ELISA
	Western blot
	HPLC
	SDS-PAGE

Form Lyophilized

Preparation and Storage

Stability and Storage Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.

Reconstitution Reconstituted ab79950 is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freeze/thaw cycles.

General Info

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.

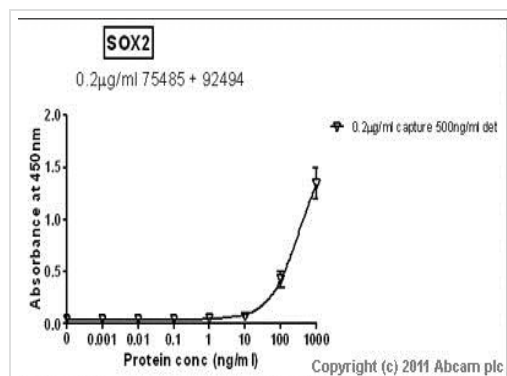
Involvement in disease Defects in SOX2 are the cause of microphthalmia syndromic type 3 (MCOPS3) [MIM:206900]. Microphthalmia is a clinically heterogeneous disorder of eye formation, ranging from small size of a single eye to complete bilateral absence of ocular tissues (anophthalmia). In many cases, 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



Standard Curve for SOX2 (Analyte: **SOX2 protein (Human) (ab79950)**); dilution range 1 pg/ml to 1 µg/ml using Capture Antibody **Mouse monoclonal [57CT23.3.4] to SOX2 (ab75485)** at 0.2 µg/ml and Detector Antibody **Rabbit monoclonal [EPR3131] to SOX2 (ab92494)** at 0.5 µg/ml.

Sandwich ELISA - Recombinant Human SOX2 protein (ab79950)



Western blot - Recombinant Human SOX2 protein
(ab79950)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors