abcam

Product datasheet

Anti-SOX2 (GlcNAc S248) antibody ab136167

2 Abreviews 1 References 2 Images

Overview

Product name	Anti-SOX2 (GlcNAc S248) antibody
Description	Rabbit polyclonal to SOX2 (GlcNAc S248)
Host species	Rabbit
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Mouse
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	This antibody gave a positive signal in E14Tg2A , MCF7 whole cell lysates and IOUD2 whole cell lysates.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab136167 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
WB	★★★★☆ (2)	Use a concentration of 1 µg/ml. Detects a band of approximately 40 kDa (predicted molecular weight: 34 kDa).

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.

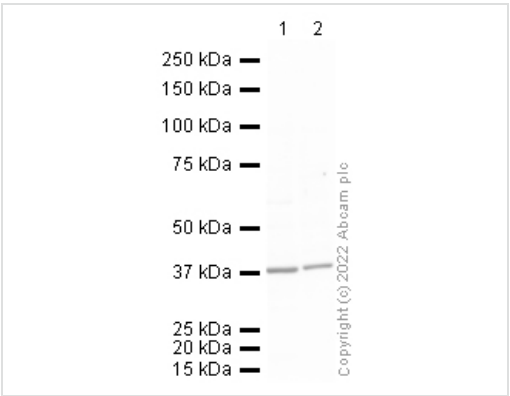
Involvement in disease Defects in SOX2 are the cause of microphthalmia syndromic type 3 (MCOPS3) [MIM:206900]. Microphthalmia is a clinically heterogeneous disorder of eye formation, ranging from small size of a single eye to complete bilateral absence of ocular tissues (anophthalmia). In many cases,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



Western blot - Anti-SOX2 (GlcNAc S248) antibody (ab136167)

All lanes : Anti-SOX2 (GlcNAc S248) antibody (ab136167) at 1 µg/ml

Lane 1 : MCF7 whole cell lysate
Lane 2 : Mouse embryonic stem cell lysate

Lysates/proteins at 10 µg per lane.

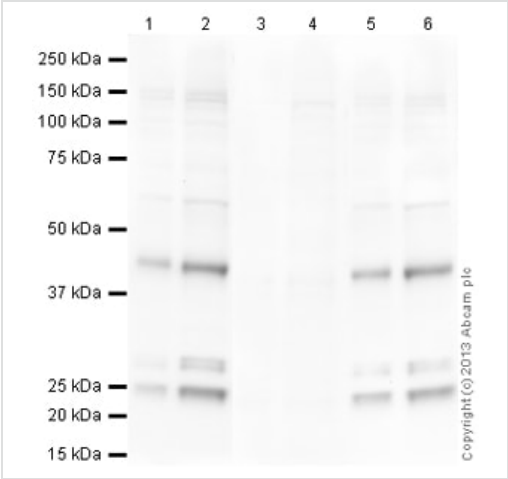
Secondary
All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/50000 dilution

Predicted band size: 34 kDa
Observed band size: 40 kDa

Exposure time: 4 minutes

Gel type: MOPS

Blocking buffer: 2% BSA block



Western blot - Anti-SOX2 (GlcNAc S248) antibody (ab136167)

All lanes : Anti-SOX2 (GlcNAc S248) antibody (ab136167) at 1 µg/ml

Lane 1 : E14Tg2a (Mouse embryonic stem cell line) Whole Cell Lysate
Lane 2 : IOUD2 (Mouse embryonic stem cell line) Whole Cell Lysate
Lane 3 : E14Tg2a (Mouse embryonic stem cell line) Whole Cell Lysate with SOX2 (glcnac S248) peptide (**ab157602**) at 1 µg/ml
Lane 4 : IOUD2 (Mouse embryonic stem cell line) Whole Cell Lysate with SOX2 (glcnac S248) peptide (**ab157602**) at 1 µg/ml
Lane 5 : E14Tg2a (Mouse embryonic stem cell line) Whole Cell Lysate with Mouse SOX2 peptide (**ab157771**) at 1 µg/ml
Lane 6 : IOUD2 (Mouse embryonic stem cell line) Whole Cell Lysate with Mouse SOX2 peptide (**ab157771**) at 1 µg/ml

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 34 kDa
Observed band size: 40 kDa
Additional bands at: 148 kDa, 24 kDa, 29 kDa, 62 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 1 minute

This blot was produced using a 10% Bis-tris gel under the MOPS

buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 5% Bovine Serum Albumin before being incubated with ab136167 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution.

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