

Product datasheet

Anti-SOX2 antibody [EPR3130] ab133337

Recombinant RabMAb

[2 References](#) [6 Images](#)

Overview

Product name	Anti-SOX2 antibody [EPR3130]
Description	Rabbit monoclonal [EPR3130] to SOX2
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, IP Unsuitable for: Flow Cyt or ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human SOX2 aa 250-350. The exact sequence is proprietary.
Positive control	WB: NCCIT cell lysate; IHC: Human fetal brain, Human normal brain and glioma tissue. IP: NCCIT.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR3130
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab133337 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
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
WB		1/500 - 1/1000. Detects a band of approximately 35 kDa (predicted molecular weight: 34 kDa).
IP		1/10.

Application notes

Is unsuitable for Flow Cyt or ICC/IF.

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.

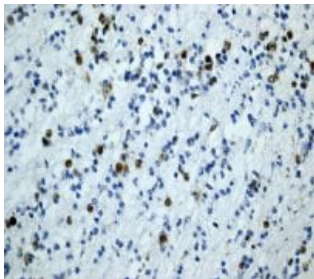
Post-translational modifications

Sumoylation inhibits binding on DNA and negatively regulates the FGF4 transactivation.

Cellular localization

Nucleus.

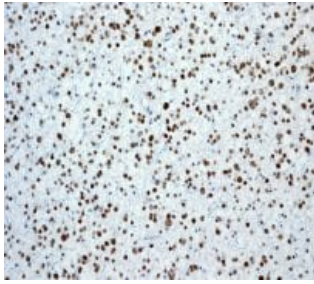
Images



Immunohistochemical analysis of Formalin-fixed, paraffin embedded Human fetal brain tissue labelling SOX2 with ab133337 at 1/50 dilution.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

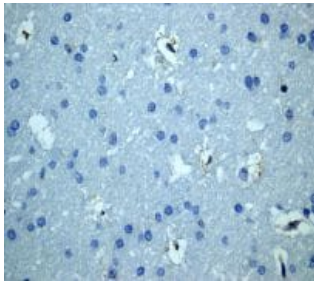
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [EPR3130] (ab133337)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [EPR3130] (ab133337)

Immunohistochemical analysis of Formalin-fixed, paraffin embedded Human glioma tissue labelling SOX2 with ab133337 at 1/50 dilution.

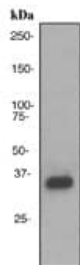
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX2 antibody [EPR3130] (ab133337)

Immunohistochemical analysis of Formalin-fixed, paraffin embedded Human brain tissue staining SOX2 with ab133337 at 1/50 dilution.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Western blot - Anti-SOX2 antibody [EPR3130] (ab133337)

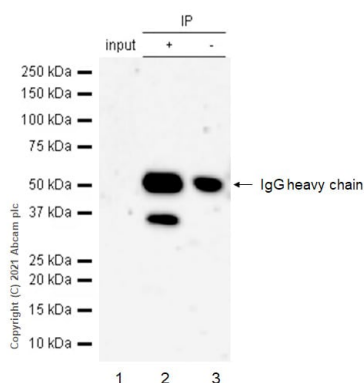
Anti-SOX2 antibody [EPR3130] (ab133337) at 1/500 dilution + NCCIT cell lysate at 10 µg

Secondary

Goat Anti-rabbit HRP at 1/2000 dilution

Predicted band size: 34 kDa

Observed band size: 35 kDa



Immunoprecipitation - Anti-SOX2 antibody
[EPR3130] (ab133337)

SOX2 was immunoprecipitated from 0.35 mg NCCIT (Human pluripotent embryonic carcinoma epithelial cell) whole cell lysate 10 µg with 133337 at 1/50 dilution (2µg). VeriBlot for IP Detection Reagent (HRP)([ab131366](#)) was used at 1/5000 dilution.

Lane 1: NCCIT (Human pluripotent embryonic carcinoma epithelial cell) whole cell lysate 10 µg

Lane 2: ab133337 IP in NCCIT whole cell lysate

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab133337 in NCCIT whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-SOX2 antibody [EPR3130] (ab133337)

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

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