

For Research Use Only

SOX2 Recombinant monoclonal antibody, PBS Only (Capture)

Catalog Number: 83059-6-PBS



Basic Information

Catalog Number:

83059-6-PBS

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0612

GenBank Accession Number:

BC013923

GeneID (NCBI):

6657

UNIPROT ID:

P48431

Full Name:

SRY (sex determining region Y)-box 2

Calculated MW:

34 kDa

Observed MW:

34-43 kDa

Purification Method:

Protein A purification

CloneNo.:

252889F12

Applications

Tested Applications:

WB, Sandwich ELISA, Indirect ELISA

Species Specificity:

human, mouse, rat

Background Information

Sox2, also known as SRY (sex determining region Y)-box 2, is a transcription factor essential for maintaining self-renewal of undifferentiated ES cells and is one of the key transcription factors used to reprogram mouse and human fibroblasts to a pluripotent state. Sox2 expressed in undifferentiated pluripotent stem cells and germ cells during development. A rare undifferentiated cell population that is intermingled with the Bergmann glia of the adult murine cerebellar cortex, expresses the stem cell markers Sox2 and Nestin, and lacks markers of glial or neuronal differentiation.

Storage

Storage:

Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS only, pH7.3

For technical support and original validation data for this product please contact:

T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

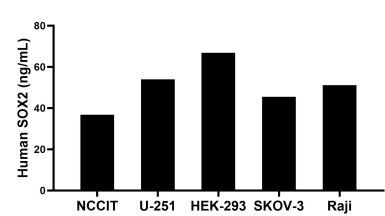
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data

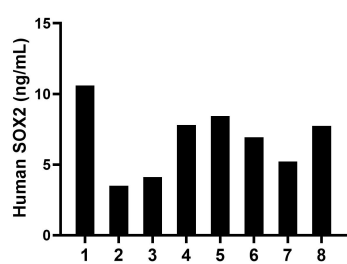


Various lysates were subjected to SDS PAGE followed by western blot with 83059-6-RR (SOX2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83059-6-PBS in a different storage buffer formulation.

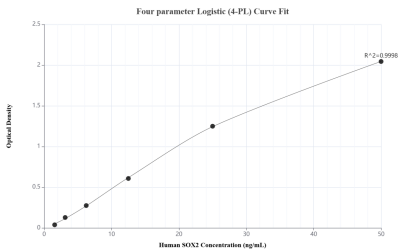
Various lysates were subjected to SDS PAGE followed by western blot with 83059-6-RR (SOX2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83059-6-PBS in a different storage buffer formulation.



The mean SOX2 concentration was determined to be 36.70 ng/mL in NCCIT cell extract based on a 1.10 mg/mL extract load, 54.00 ng/mL in U-251 cell extract based on a 1.20 mg/mL extract load, 66.90 ng/mL in HEK-293 cell extract based on a 1.20 mg/mL extract load, 45.50 ng/mL in SKOV-3 cell extract based on a 1.20 mg/mL extract load and 51.10 ng/mL in Raji cell extract based on a 1.20 mg/mL extract load.



Plasma of eight individual healthy human donors was measured. The SOX2 concentration of detected samples was determined to be 6.79 ng/mL with a range of 3.51-10.60 ng/mL.



Sandwich ELISA standard curve of MP00077-3, Human SOX2 Recombinant Matched Antibody Pair - PBS only. 83059-6-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag0612. 83059-9-PBS was HRP conjugated as the detection antibody. Range: 1.56-50 ng/mL.