

For Research Use Only

# SOX9 Monoclonal antibody

Catalog Number: 67439-1-Ig

Featured Product

85 Publications



## Basic Information

Catalog Number:

67439-1-Ig

Concentration:

2000 ug/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG28620

GenBank Accession Number:

BC007951

GeneID (NCBI):

6662

UNIPROT ID:

P48436

Full Name:

SRX (sex determining region Y)-box 9

Calculated MW:

509 aa, 56 kDa

Observed MW:

56 kDa

Purification Method:

Protein G purification

CloneNo.:

1H9A6

Recommended Dilutions:

WB: 1:5000-1:50000

IHC: 1:500-1:2000

FC (Intra): 0.40 ug per 10<sup>6</sup> cells in a 100 µl suspension

## Applications

Tested Applications:

WB, FC (Intra), ELISA

Cited Applications:

WB

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat, pig, rabbit, canine

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

WB: HT-29 cells, Caco-2 cells, human placenta tissue, NCCIT cells

IHC: human gliomas tissue,

FC (Intra): HeLa cells,

## Background Information

SOX9, also named as Transcription factor SOX-9, is a 509 amino acid protein. Sex-determining region Y (SRX)-box 9 protein (SOX9) is a member of the SOX family of transcription factors (TFs) which are developmental regulators that possess high mobility group (HMG) box DNA binding and transactivation domains. It participates in a variety of functions, such as lineage restriction and terminal differentiation, through precise temporal and spatial expression patterns that differ between particular cell types and tissues. SOX9 gene has been implicated in different types of cancer as an oncogene; however, it also may behave as a tumor suppressor.

## Notable Publications

Author	Pubmed ID	Journal	Application
LinXi Cheng	34489520	Commun Biol	
Xiao-Xin Gao	34719207	Front Biosci (Landmark Ed)	WB
Tianwen Ma	36386227	Front Pharmacol	WB

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

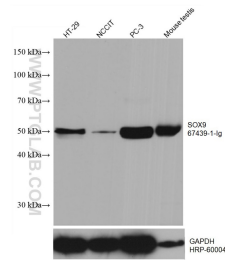
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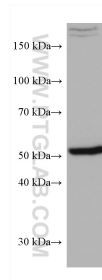
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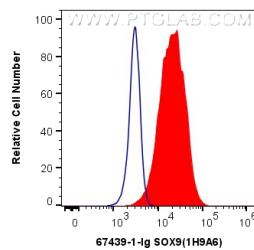
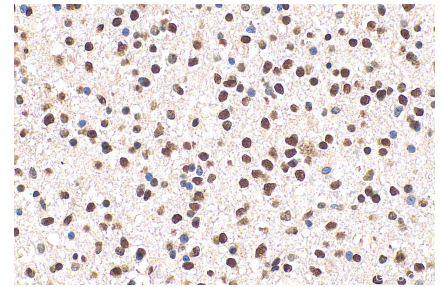
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67439-1-Ig (SOX9 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



human placenta tissue were subjected to SDS PAGE followed by western blot with 67439-1-Ig (SOX9 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



$1 \times 10^6$  HeLa cells were intracellularly stained with 0.4 ug Anti-Human SOX9 (67439-1-Ig, Clone:1H9A6) and Coralite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG1 Isotype Control (MOPC-21) (65124-1-Ig, Clone: MOPC-21) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).