

For Research Use Only

SOX10 Polyclonal antibody

Catalog Number: 10422-1-AP

Featured Product

30 Publications



Basic Information

Catalog Number:

10422-1-AP

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0673

GenBank Accession Number:

BC002824

GeneID (NCBI):

6663

UNIPROT ID:

P56693

Full Name:

SRY (sex determining region Y)-box 10

Calculated MW:

50 kDa

Observed MW:

50-60 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:1000-1:8000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:500-1:2000

IF-Fro: 1:50-1:500

FC (Intra): 0.40 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IHC, IF-Fro, FC (Intra), IP, ELISA

Cited Applications:

WB, IHC, IF, FC (Intra), ColP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

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: mouse brain tissue, MDA-MB-453 cells, mouse small intestine tissue, SH-SY5Y cells

IP: mouse colon tissue,

IHC: mouse brain tissue,

IF-Fro: mouse brain tissue,

FC (Intra): C6 cells,

Background Information

Sox10 is a transcription factor that has a crucial role in complex signalling pathways regulating central nervous system and neural crest development. The calculated molecular weight of SOX10 is 50 kDa, but modified SOX10 is about 55-60 kDa. (PMID: 23799842)

Notable Publications

Author	Pubmed ID	Journal	Application
Fränze Progatzy	34671159	Nature	IHC
Gelei Xiao	36524115	Front Immunol	IF
Erge Zhang	32572506	J Mol Med (Berl)	IF

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:

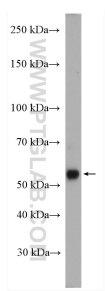
T: 4006900926

E: Proteintech-CN@ptglab.com

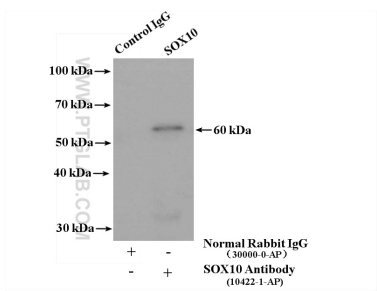
W: ptgcn.com

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

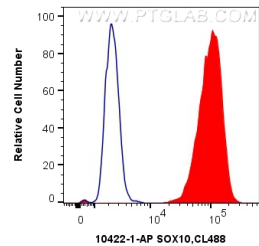
Selected Validation Data



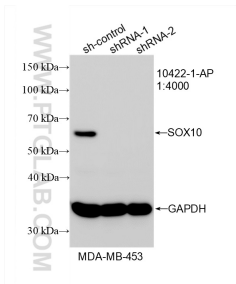
mouse brain tissue were subjected to SDS PAGE followed by western blot with 10422-1-AP (SOX10 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



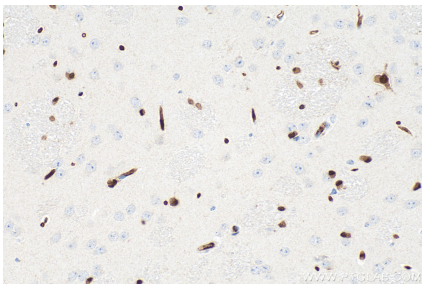
IP result of anti-SOX10 (IP:10422-1-AP, 4ug; Detection:10422-1-AP 1:2000) with mouse colon tissue lysate 4000 ug.



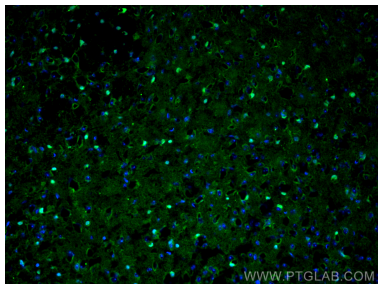
1X10⁶ C6 cells were intracellularly stained with 0.4 ug Anti-Human SOX10 (10422-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



WB result of SOX10 antibody (10422-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SOX10 transfected MDA-MB-453 cells.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10422-1-AP (SOX10 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse brain tissue using SOX10 antibody (10422-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).