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SOX10 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP5854C

Specification

SOX10 Antibody (Center) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P56693
Other Accession	O55170, A5A763, Q04888, NP_008872.1
Reactivity	**Human, Mouse, Rat**
Predicted	**Pig**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**231-259**

SOX10 Antibody (Center) - Additional Information

Gene ID 6663

Other Names
Transcription factor SOX-10, SOX10

Target/Specificity
This SOX10 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 231-259 amino acids of human SOX10.

Dilution
WB~~1:1000
IHC-P~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
SOX10 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

SOX10 Antibody (Center) - Protein Information

Name SOX10

Function Transcription factor that plays a central role in developing and mature glia (By

similarity). Specifically activates expression of myelin genes, during oligodendrocyte (OL) maturation, such as DUSP15 and MYRF, thereby playing a central role in oligodendrocyte maturation and CNS myelination (By similarity). Once induced, MYRF cooperates with SOX10 to implement the myelination program (By similarity). Transcriptional activator of MITF, acting synergistically with PAX3 (PubMed:21965087). Transcriptional activator of MBP, via binding to the gene promoter (By similarity).

Cellular Location
Cytoplasm. Nucleus. Mitochondrion outer membrane {ECO:0000250|UniProtKB:Q04888}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q04888}; Cytoplasmic side {ECO:0000250|UniProtKB:Q04888}

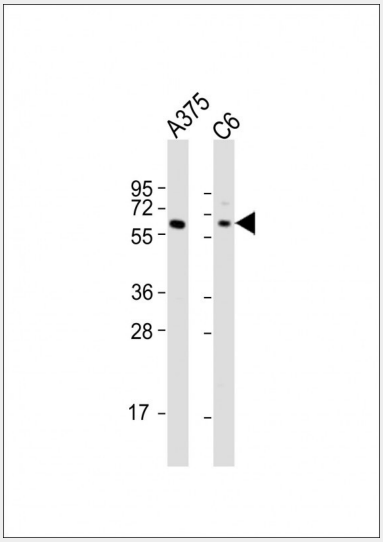
Tissue Location
Expressed in fetal brain and in adult brain, heart, small intestine and colon

SOX10 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

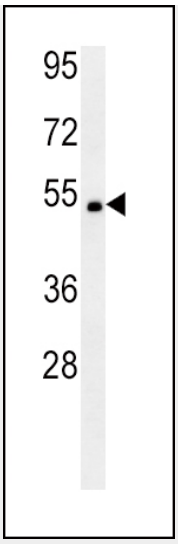
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SOX10 Antibody (Center) - Images

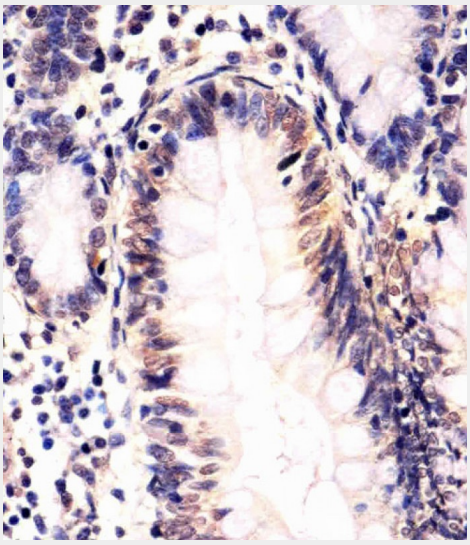


All lanes : Anti-SOX10 Antibody (Center) at 1:2000 dilution Lane 1: A375 whole cell lysates Lane 2: C6 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 50 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

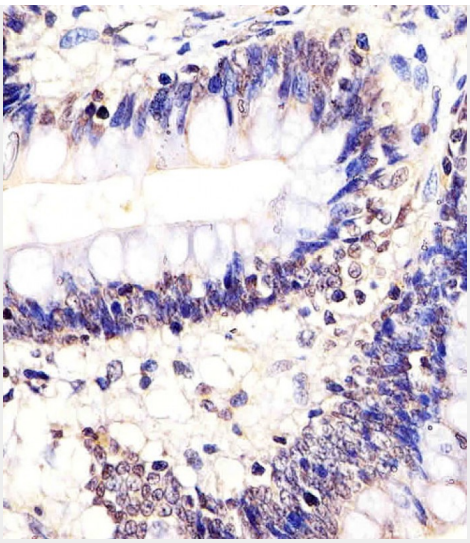
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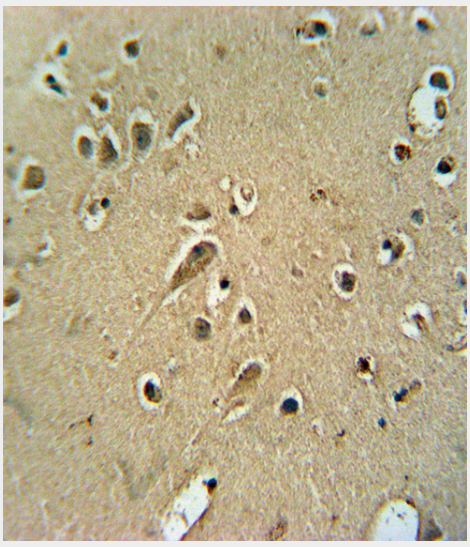
SOX10 Antibody (Center) (Cat. #AP5854c) western blot analysis in mouse heart tissue lysates (15ug/lane).This demonstrates the SOX10 antibody detected SOX10 protein (arrow).



AP5854c staining SOX10 in human colon tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



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SOX10 Antibody (Center) (Cat. #AP5854c) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the SOX10 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

SOX10 Antibody (Center) - Citations

- Modulation of Sox10, HIF-1α, Survivin, and YAP by Minocycline in the Treatment of Neurodevelopmental Handicaps following Hypoxic Insult.