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Datasheet for ABIN2777864

anti-SOX10 antibody (Middle Region)

9 Images

1 Publication

Overview

Quantity:	100 µL
Target:	SOX10
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Cow, Dog, Horse, Rabbit, Guinea Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SOX10 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human SOX10
Sequence:	PGGEAEQGGT AAIQAHYKSA HLDHRHPGEG SPMSDGNPEH PSGQSHGPPT
Predicted Reactivity:	Cow: 93%, Dog: 93%, Guinea Pig: 93%, Horse: 93%, Human: 100%, Mouse: 93%, Rabbit: 93%, Rat: 86%
Purification:	Affinity Purified

Target Details

Target:	SOX10
Alternative Name:	SOX10 (SOX10 Products)
Background:	SOX10 is a member of the SOX (SRY-related HMG-box) family of transcription factors involved

Target Details

in the regulation of embryonic development and in the determination of the cell fate. This protein may act as a transcriptional activator after forming a protein complex with other proteins. It acts as a nucleocytoplasmic shuttle protein and is important for neural crest and peripheral nervous system development. Mutations in this gene are associated with Waardenburg-Shah and Waardenburg-Hirschsprung disease.

Alias Symbols: DOM, MGC15649, WS2E, WS4, PCWH, WS4C

Protein Interaction Partner: UBC, CDK6, EXOC5, NMI, EPAS1, POU3F2, UTF1, PAX3, UBE2I, OLIG2, HHEX, PAX6, ALX4, PRRX2, SUMO2, POU3F3, SUMO3, SOX10, SUMO1, TCF12, MEOX1, DLX5, HIVEP1, SP1, PRRX1, JUN, POU5F1, HOXC4, HOXA3, EGR2, CEBPA,

Protein Size: 466

Molecular Weight: 50 kDa

Gene ID: 6663

NCBI Accession: [NM_006941](#), [NP_008872](#)

UniProt: [P56693](#)

Pathways: [Chromatin Binding](#)

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 466 AA

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: Lot specific

Buffer: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freeze-thaw cycles.

Handling

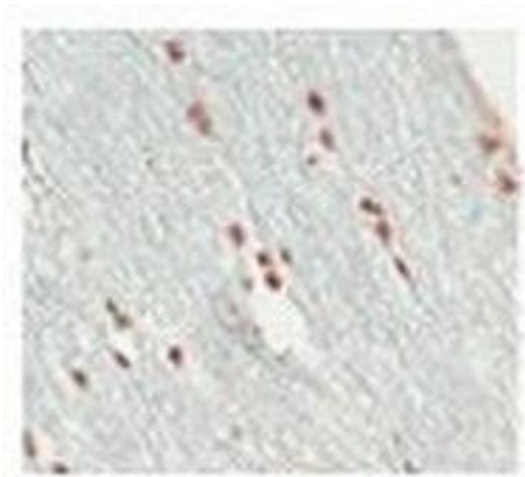
Storage: -20 °C

Storage Comment: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in: Roberts, Childs, Brown, Davis, Booth: "Early depression of Ankrd2 and Csrp3 mRNAs in the polyribosomal and whole tissue fractions in skeletal muscle with decreased voluntary running." in: **Journal of applied physiology (Bethesda, Md. : 1985)**, Vol. 112, Issue 8, pp. 1291-9, (2012) ([PubMed](#)).

Images



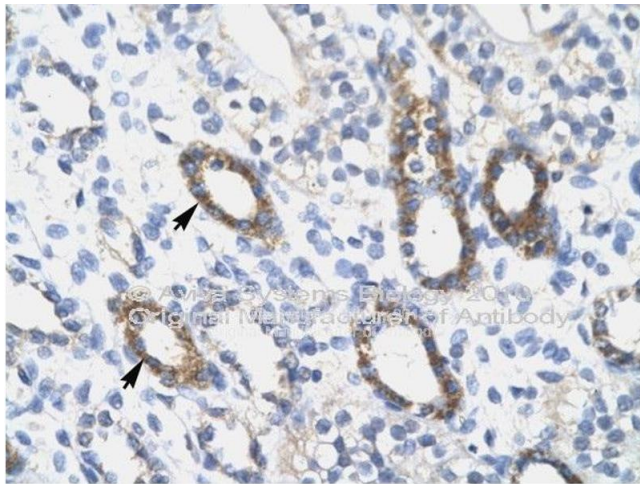
Immunohistochemistry

Image 1. A/ [IHC-PZ] (optimal processing) human optic nerve (short post mortem interval) fixed by immersion in zinc-based fixative (BD Pharmingen 552658), processed to minimize antigen loss (shortened protocol, reduced exposure to high temperature); embedded in paraffin wax; sectioned at 3 microns A2/ [IHC-PZ + FF] As above for initial fixation then post-fixed in 10% buffered formalin for 5 days B/ [IHC-P] human optic nerve and spinal cord fixed in 10% buffered formalin (relatively short post mortem interval and fixation duration); standard processing; embedded in paraffin wax; sectioned at 3 microns Controls Negative: omission of primary. Positive: Olig2 reactivity was in comparison with antibody from Prof Charles Stiles/ Dr John Alberta (DF308; N terminal Olig2) used at 1:10000 (IHC-PZ); 1:4000 (IHC-P)



Western Blotting

Image 2. WB Suggested Anti-



Immunohistochemistry

Image 3. Immunohistochemistry with Skin tissue at an antibody concentration of 4-8ug/ml using anti-SOX10 antibody

Please check the [product details page](#) for more images. Overall 9 images are available for ABIN2777864.