

Datasheet for ABIN2777864  
**anti-SOX10 antibody (Middle Region)**



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9 Images

1 Publication

## Overview

Quantity:	100 µL
Target:	SOX10
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Cow, Dog, Guinea Pig, Horse, Rabbit
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 ( <a href="#">SOX10 Products</a> )
Background:	SOX10 is a member of the SOX (SRY-related HMG-box) family of transcription factors involved

## Target Details

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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

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Molecular Weight: 50 kDa

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Gene ID: 6663

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NCBI Accession: [NM\\_006941](#), [NP\\_008872](#)

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UniProt: [P56693](#)

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Pathways: [Chromatin Binding](#)

## Application Details

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

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Comment: Antigen size: 466 AA

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Concentration: Lot specific

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

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Preservative: Sodium azide

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

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Handling Advice: Avoid repeated freeze-thaw cycles.

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## Handling

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Storage: -20 °C

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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.

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## Publications

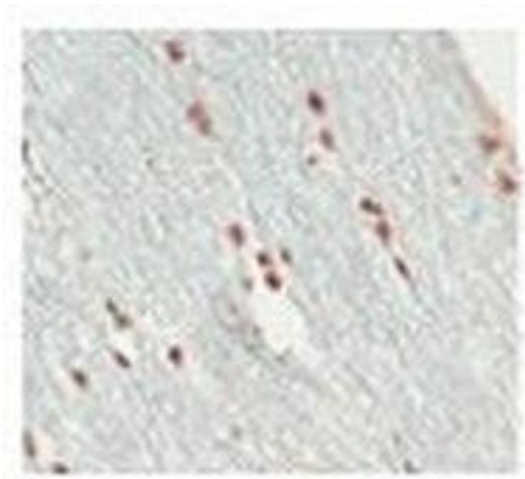
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Product cited in: Wilson, Olm-Shipman, Acevedo, Palaniyandi, Hall, Kosa, Stumpff, Smith, Pitstick, Liao, Bjork, Czirok, Saadi: "SPECC1L deficiency results in increased adherens junction stability and reduced cranial neural crest cell delamination." in: **Scientific reports**, Vol. 6, pp. 17735, (2016) ([PubMed](#)).

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## Images

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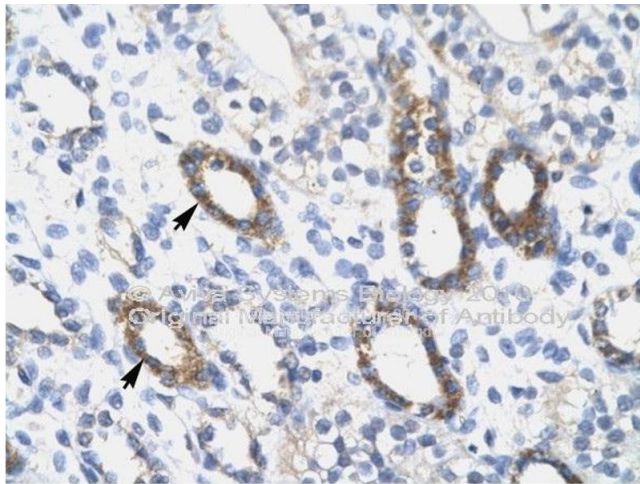
### Immunohistochemistry

**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.