

**Anti-SOX10 Picoband Antibody**  
Catalog # ABO10108**Specification****Anti-SOX10 Picoband Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P56693</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for SOX10 detection. Tested with WB in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-SOX10 Picoband Antibody - Additional Information**

**Gene ID** 6663

**Other Names**

Transcription factor SOX-10, SOX10

**Application Details**

Western blot, 0.1-0.5 µg/ml

**Subcellular Localization**

Cytoplasm. Nucleus.

**Tissue Specificity**

Expressed in fetal brain and in adult brain, heart, small intestine and colon.

**Contents**

Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence of human SOX10 (KPHIDFGNVDIGEISHEVMSNMETFDVAELDQYL).

**Cross Reactivity**

No cross reactivity with other proteins.

**Storage**

**At -20°C; for one year. After r°Constitution, at 4°C; for one month. It°Can also be aliquotted and stored frozen at -20°C; for a longer time. Avoid repeated freezing and thawing.**

## Anti-SOX10 Picoband Antibody - 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:<a href="http://www.uniprot.org/citations/21965087" target="\_blank">21965087</a>). 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

## Anti-SOX10 Picoband Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-SOX10 Picoband Antibody - Images

### Anti-SOX10 Picoband Antibody - Background

Transcription factor SOX-10 is a protein that in humans is encoded by the SOX10 gene. This gene encodes a member of the SOX (SRY-related HMG-box) family of transcription factors involved in the regulation of embryonic development and in the determination of the cell fate. The encoded protein may act as a transcriptional activator after forming a protein complex with other proteins. This protein 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.