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SOX10 Antibody

Rabbit mAb
Catalog # AP90829

Product Information

Application	IHC
Primary Accession	P56693
Reactivity	Human
Clonality	Monoclonal
Other Names	SOX10; DOM; Transcription factor SOX-10; WS4; PCWH; WS2E; SRY-related HMG-box gene 10; WS4C;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	49911

Additional Information

Dilution	IHC 1:50~1:200
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human SOX10
Description	SOX10 is a member of the SOX (SRY-related HMG-box) family of transcription factors involved in the regulation of embryonic development and the determination of cell fate. Sox10 is an important regulator of neural crest and peripheral nervous system development.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

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

Images

Image not found : 202311/AP90829-IHC.jpg	Immunohistochemical analysis of paraffin-embedded human breast, using SOX10 Antibody.