

Rabbit SOX10 Polyclonal Antibody | anti-SOX10 antibody

SOX10 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA40863	Rabbit	Human, Mouse, Rat Predicted: Pig (100%), Chicken (89%), Goat (100%)	Western Blot, ELISA

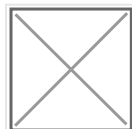
PRODUCT SYNONYMS

SOX10; Polyclonal Antibody; SOX10 Antibody; SRY (sex determining region Y)-box 10; DOM;WS4; PCWH; WS2E; WS4C; SRY-box 10; anti-SOX10 antibody

PRODUCT SPECIFICATIONS

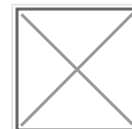
Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted: Pig (100%), Chicken (89%), Goat (100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	SOX10 Antibody is predicted to not cross-react with other SOX family members.
Purity/Purification	Affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	466
Applicable Applications for anti-SOX10 antibody	WB (Western Blot), ELISA
Conjugate	Unconjugated
Immunogen	SOX10 antibody was raised against a peptide corresponding to 18 amino acids near the amino terminus of human SOX10.
Buffer	SOX10 Antibody is supplied in PBS containing 0.02% sodium azide.
Species	Human
Preparation and Storage	Store at 4 degree C for three months and -20 degree C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles Antibodies should not be exposed to prolonged high temperatures.

IMAGES



IF (Immunofluorescence)

Immunofluorescence of SOX10 in rat heart tissue with SOX10 Antibody at 20 &#956;g/mL.



IHC (Immunohistochemistry)

Immunohistochemistry of SOX10 in rat heart tissue with SOX10 Antibody at 5 &#956;g/mL.



WB (Western Blot)

Western blot analysis of SOX10 in rat heart tissue lysate with SOX10 antibody at (A) 1 and (B) 2 μg/mL.

ADDITIONAL INFORMATION

Related Product Information for anti-SOX10 antibody	SOX10 Antibody: 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 the cell fate (1). The encoded protein may act as a transcriptional activator after forming a protein complex with other proteins (2). This protein acts as a nucleocytoplasmic shuttle protein and is important for neural crest and peripheral nervous system development (2). Mutations in this gene are associated with Waardenburg-Shah and Waardenburg-Hirschprung disease (3). SLC30A8 expression in beta-cells was found to be influenced by cytokine expression, particularly IFN-gamma and IL-1beta (4).
Product Categories/Family for anti-SOX10 antibody	Signal Transduction; Stem Cell
References	1. Pusch C, Hustert E, Pfeifer D, et al. The SOX10/Sox10 gene from human and mouse: sequence, expression, and transactivation by the encoded HMG domain transcription factor. Hum. Genet. 1998; 103:115-23. 2. Rehberg S, Lischka P, Glaser G, et al. Sox10 is an active nucleocytoplasmic shuttle protein, and shuttling is crucial for Sox10-mediated transactivation. Mol. Cell Biol. 2002; 22:5826-34. 3. Pingault V, Bondurand N, Kuhlbrodt K, et al. SOX10 mutations in patients with Waardenburg-Hirschprung disease. Nat. Genet. 1998; 18:171-3.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5902104
NCBI GeneID	6663
NCBI Accession #	NP_008872
NCBI GenBank Nucleotide #	NM_006941.3
UniProt Accession #	P56693; Q6FWH7; B4DV62
Molecular Weight	Predicted: 51 kDa Observed: 54 kDa
NCBI Official Full Name	transcription factor SOX-10
NCBI Official Synonym Full Names	SRY-box 10
NCBI Official Symbol	SOX10
NCBI Official Synonym Symbols	DOM; WS4; PCWH; WS2E; WS4C
NCBI Protein Information	transcription factor SOX-10
UniProt Protein Name	Transcription factor SOX-10
UniProt Gene Name	SOX10

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.