

Rabbit anti-Human SOX4 Polyclonal Antibody | anti-SOX4 antibody

SOX4 Antibody (N-term)

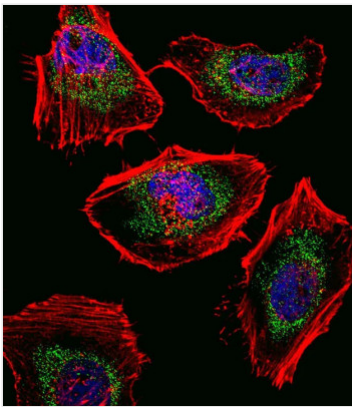
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA288652	Rabbit	Human	Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot, ELISA, Immunofluorescence

PRODUCT SYNONYMS

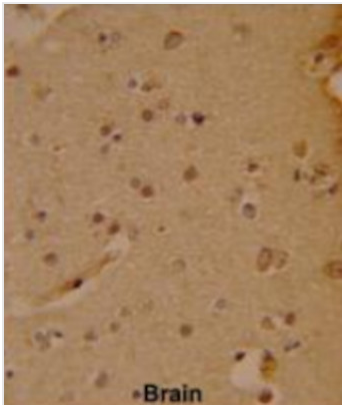
SOX4; Polyclonal Antibody; SOX4 Antibody (N-term); Transcription factor SOX-4; anti-SOX4 antibody

PRODUCT SPECIFICATIONS

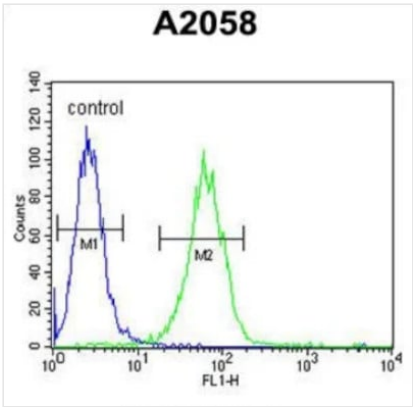
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This SOX4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 86-114 amino acids from the N-terminal region of human SOX4.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Sequence Positions	86-114
Sequence Length	474
Applicable Applications for anti-SOX4 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot), ELISA, IF (Immunofluorescence)
Function	Transcriptional activator that binds with high affinity to the T-cell enhancer motif5'-AACAAAG-3' motif (PubMed:30661772). Required for IL17A-producing Vgamma2-positive gamma-delta T-cell maturation and development, via binding to regulator loci of RORC to modulate expression (By similarity).
Cellular Location	Nucleus {ECO:0000255 PROSITE-ProRule:PRU00267, ECO:0000269 PubMed:16631117}
Tissue Location	Testis, brain, and heart.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



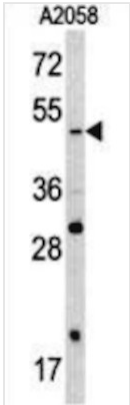
IF (Immunofluorescence)
Fluorescent confocal image of HeLa cell stained with SOX4 Antibody (N-term). HeLa cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with SOX4 primary antibody (1:25, 1 h at 37 degree). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 degree). Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37 degree). Nuclei were counterstained with DAPI (blue) (10 ug/ml, 10 min). SOX4 immunoreactivity is localized to Mitochondria significantly and Nucleus weakly.



IHC (Immunohistochemistry)
Formalin-fixed and paraaffin-embedded human brain reacted with SOX4 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



FCM/FACS (Flow Cytometry)
SOX4 Antibody (N-term) flow cytometric analysis of A2058 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



WB (Western Blot)
Western blot analysis of SOX4 antibody (N-term) in A2058 cell line lysates (35ug/lane). SOX4 (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-SOX4 antibody	SOX4 is 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 protein may act as a transcriptional regulator after forming a protein complex with other proteins, such as syndecan binding protein (syntenin). The protein may function in the apoptosis pathway leading to cell death as well as to tumorigenesis and may mediate downstream effects of parathyroid hormone (PTH) and PTH-related protein (PTHrP) in bone development. The solution structure has been resolved for the HMG-box of a similar mouse protein.
Product Categories/Family for anti-SOX4 antibody	Neuroscience; Signal Transduction
References	Farr C.J., Easty D.J.Mamm. Genome 4:577-584(1993) Pan X., Li H., Zhang P.Biochem. Biophys. Res. Commun. 344:727-734(2006)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507163
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NCBI GeneID	6659
NCBI Accession #	NP_003098.1
NCBI GenBank Nucleotide #	NM_003107.2
UniProt Accession #	Q06945
NCBI Official Full Name	transcription factor SOX-4
NCBI Official Synonym Full Names	SRY (sex determining region Y)-box 4
NCBI Official Symbol	SOX4
NCBI Official Synonym Symbols	EV116
NCBI Protein Information	transcription factor SOX-4
UniProt Protein Name	Transcription factor SOX-4
UniProt Gene Name	SOX4
UniProt Entry Name	SOX4_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/sox4-antibody-flow-cytometry-immunohistochemistry-western-blot-immunofluorescence-elisa/288652>