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SOX4 Rabbit pAb

Catalog # AP97699

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q06945
Other Accession	Q06945
Reactivity	Rat, Human, Mouse
Predicted	Chicken
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47263
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SOX4
Epitope Specificity	54-103/474
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 HMG box DNA-binding domain.
SUBUNIT	Interacts with UBE2I.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Sox genes comprise a family of genes that are related to the mammalian sex determining gene SRY. These genes similarly contain sequences that encode for the HMG-box domain, which is responsible for the sequence-specific DNA-binding activity. Sox genes encode putative transcriptional regulators implicated in the decision of cell fates during development and the control of diverse developmental processes. The highly complex group of Sox genes cluster at least 40 different loci that rapidly diverged in various animal lineages. At present, 30 Sox genes have been identified. Members of this family have been shown to be conserved during evolution and to play key roles during animal development. Some are involved in human diseases, including sex reversal.

Additional Information

Gene ID	6659
Other Names	CSS10; EVI16; IDDSDF; Sox-4; sox4; wu:fb82f08; wu:fq41g10; zgc:65850; zgc:77392; Q0VCF8_BOVIN; SOX4_HUMAN; SOX4_MOUSE; SRY-box transcription factor 4; SRY (sex determining region Y)-box 4; SRY-box 4
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=2ug /Test
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

Protein Information

Name	SOX4 {ECO:0000303|PubMed:8268656, ECO:0000312|HGNC:HGNC:11200}
Function	Transcriptional activator that binds with high affinity to the T-cell enhancer motif 5'-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). Involved in skeletal myoblast differentiation by promoting gene expression of CALD1 (PubMed:26291311).
Cellular Location	Nucleus {ECO:0000255|PROSITE-ProRule:PRU00267, ECO:0000269|PubMed:16631117}
Tissue Location	Testis, brain, and heart.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.