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SOX7 Rabbit pAb

Catalog # AP98562

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9BT81
Other Accession	Q9BT81
Reactivity	Human, Mouse
Predicted	Rat, Pig, Rabbit, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	42197
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SOX7
Epitope Specificity	42-100/388
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. Contains 1 Sox C-terminal domain.
SUBUNIT	Interacts with CTNNB1/beta-catenin; this interaction may lead to the proteasomal degradation of active CTNNB1 and thus inhibition of Wnt/beta-catenin-stimulated transcription.
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	83595
Other Names	XELAEV_18028242mg; sox7; sox7-A; xSox7; SOX7_HUMAN; SOX7_MOUSE; mSOX7; Sox-7; SOX7_XENLA; SRY-box transcription factor 7; SRY (sex determining region Y)-box 7; SRY-box 7
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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	SOX7
Function	Binds to and activates the CDH5 promoter, hence plays a role in the transcriptional regulation of genes expressed in the hemogenic endothelium and blocks further differentiation into blood precursors (By similarity). May be required for the survival of both hematopoietic and endothelial precursors during specification (By similarity). Competes with GATA4 for binding and activation of the FGF3 promoter (By similarity). Represses Wnt/beta-catenin-stimulated transcription, probably by targeting CTNNB1 to proteasomal degradation. Binds the DNA sequence 5'-AACAAT-3'.
Cellular Location	Nucleus {ECO:0000255|PROSITE-ProRule:PRU00267}. Cytoplasm
Tissue Location	Widely expressed in adult and fetal tissues. Present both in mesenchymal and epithelial cells in some adult tissues, including colon. Tends to be down-regulated in prostate adenocarcinomas and colorectal tumors due to promoter hypermethylation

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