

SOX21 Rabbit pAb

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Catalog # AP54689

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9Y651
Reactivity	Rat, Mouse
Predicted	Human, Chicken
Host	Rabbit
Clonality	Polyclonal
Calculated MW	28580
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SOX21
Epitope Specificity	41-140/276
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nuclear
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	11166
Other Names	Transcription factor SOX-21, SOX-A, SOX21, SOX25, SOXA
Dilution	WB=1:500-2000,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.

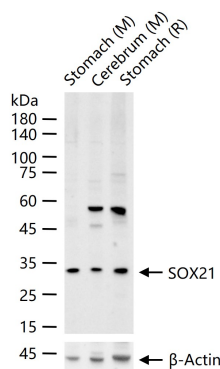
Protein Information

Name	SOX21
Synonyms	SOX25, SOXA
Function	May play a role as an activator of transcription of OPRM1. Overexpression of SOX21 can up-regulate the OPRM1 distal promoter activity in mor-expressing neuronal cells. May play a role in ameloblast differentiation.
Cellular Location	Nucleus {ECO:0000255 PROSITE-ProRule:PRU00267}.

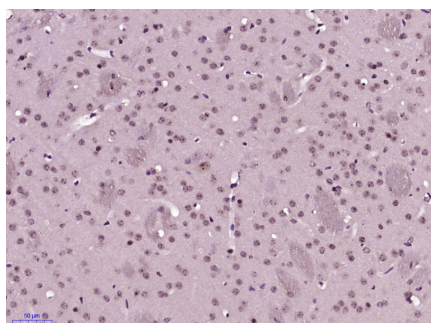
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Images



25 ug total protein per lane of various lysates (see on figure) probed with SOX21 polyclonal antibody, unconjugated (AP54689) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SOX21) Polyclonal Antibody, Unconjugated (AP54689) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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