

## Rabbit Anti-SOX21 antibody

SL11964R

**Product Name** SOX21

**Chinese Name** 转录因子 21 抗体

**Alias**

SOX21\_HUMAN; 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.

**Research Area**

Cell biology Developmental biology Neurobiology transcriptional regulatory factor  
Cell differentiation Epigenetics

**Immunogen Species**

Rabbit

**Clonality**

Polyclonal

**React Species**

Mouse,Rat(predicted:Human,Chicken,Cow)

**Applications**

WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)  
not yet tested in other applications.  
optimal dilutions/concentrations should be determined by the end user.

**Theoretical molecular weight**

29kDa

**Cellular localization**

The nucleus

**Form**

Liquid

**Concentration** 1mg/ml

**immunogen**

KLH conjugated synthetic peptide derived from human SOX21: 41-140/276

**Lsotype**

IgG

**Purification**

affinity purified by Protein A



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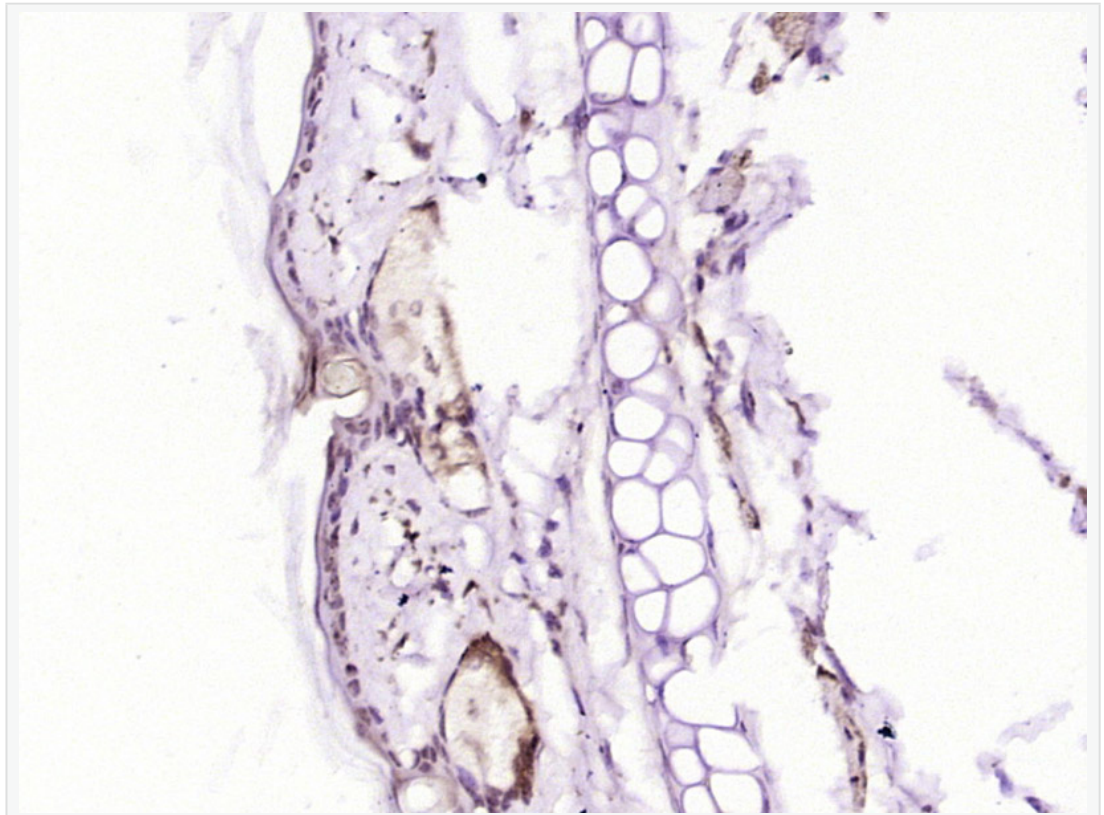
<b>Buffer Solution</b>	Mouse,Rat(predicted:Human,Chicken,Cow)1M TBS(pH7.4) with 1% BSA, Mouse,Rat(predicted:Human,Chicken,Cow)3% Proclin300 and 50% Glycerol.
<b>Storage</b>	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
<b>Attention</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>PubMed</b>	<a href="#">PubMed</a> 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.  <b>Function:</b> SOX21 is a transcription factor whose presence is key for the generation of neurons from precursor cells. The decision of neural cells to remain as progenitors or commit to neuronal differentiation seems to depend on the intrinsic balance of Sox21 and Sox1-3 activity
<b>Product Detail</b>	<b>Subcellular Location:</b> Nuclear  <b>Similarity:</b> Contains 1 HMG box DNA-binding domain.  <b>SWISS:</b> Q9Y651  <b>Gene ID:</b> 11166  <b>Database links:</b> <a href="#">Entrez Gene: 11166</a> Human <a href="#">Entrez Gene: 223227</a> Mouse <a href="#">Omim: 604974</a> Human <a href="#">SwissProt: Q9Y651</a> Human

[SwissProt: Q811W0](#) Mouse

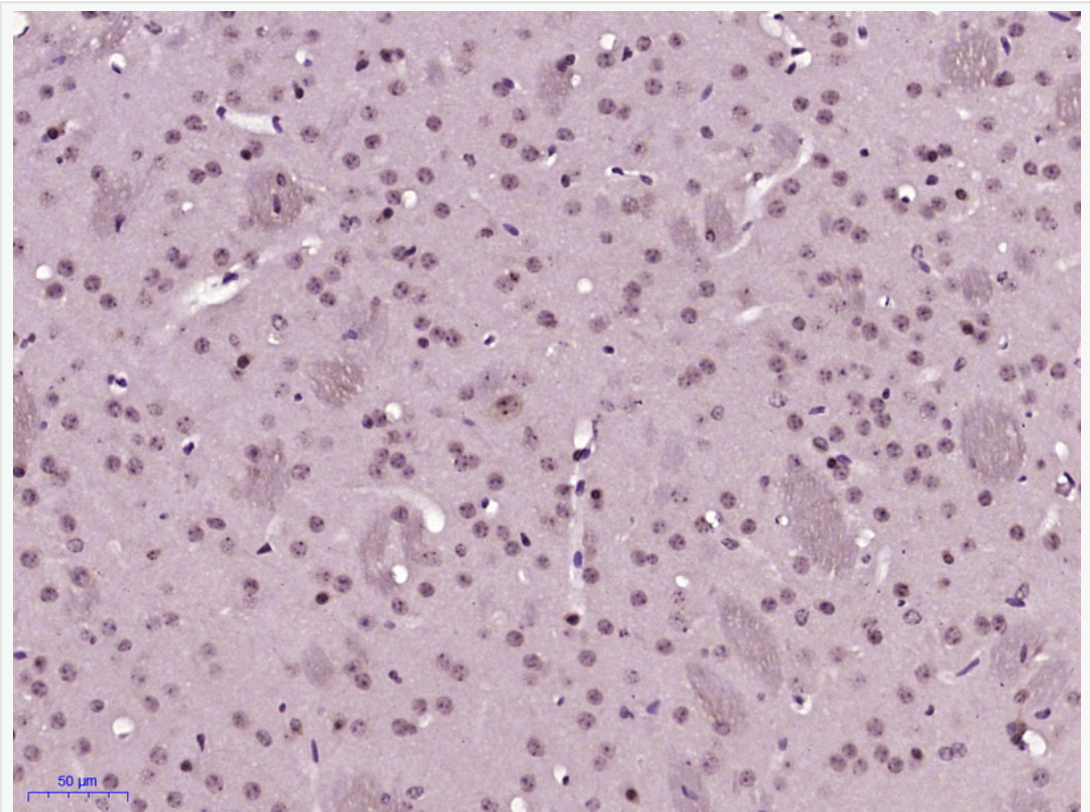
[Unigene: 187577](#) Human

[Unigene: 70950](#) Mouse

**Product  
Picture**



Paraformaldehyde-fixed, paraffin embedded (Mouse skin); 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 (SL11964R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



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 (SL11964R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.