



## Rabbit Anti-SOX4 antibody

SL11208R

<b>Product Name:</b>	SOX4
<b>Chinese Name:</b>	核转录因子SOX4抗体
<b>Alias:</b>	SOX4; SOX 4; SOX-4; Ecotropic viral integration site 16; EVI 16; EVI16; SRY (sex determining region Y) box 4; SRY box containing gene 4; SRY related HMG box gene 4; SOX4 HUMAN.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	52kDa
<b>Cellular localization:</b>	The nucleus
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human SOX4:54-103/474
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	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.

**Function:**

The SOX (SRY-box containing gene) gene family encodes a group of transcription factors defined by the conserved high motility group (HMG) DNA-binding domain. They are involved in the regulation of embryonic development and in the determination of cell fate. SOX4 shows a high degree of sequence homology with SOX11. Both are expressed in the CNS. SOX4 and SOX11 expression increase together in the developing CNS (with some exceptions: external granule layer of the cerebellum). SOX4 knock-out mice have been shown to die of a heart defect half way through gestation with no observable CNS phenotype, although it has been proposed that SOX11 compensates for the absence of SOX4.

**Subunit:**

Interacts with UBE2I.

**Subcellular Location:**

Nuclear

**Tissue Specificity:**

Testis, brain, and heart.

**Similarity:**

Contains 1 HMG box DNA-binding domain.

**SWISS:**

Q06945

**Gene ID:**

6659

**Database links:**

[Entrez Gene: 395143](#) Chicken

[Entrez Gene: 768313](#) Cow

[Entrez Gene: 6659](#) Human

[Entrez Gene: 20677](#) Mouse

[Entrez Gene: 364712](#) Rat

[Entrez Gene: 336346](#) Zebrafish

[Omim: 184430](#) Human

[SwissProt: Q0VCF8](#) Cow

[SwissProt: Q06945](#) Human

[SwissProt: Q06831](#) Mouse

[Unigene: 643910](#) Human

[Unigene: 240627](#) Mouse

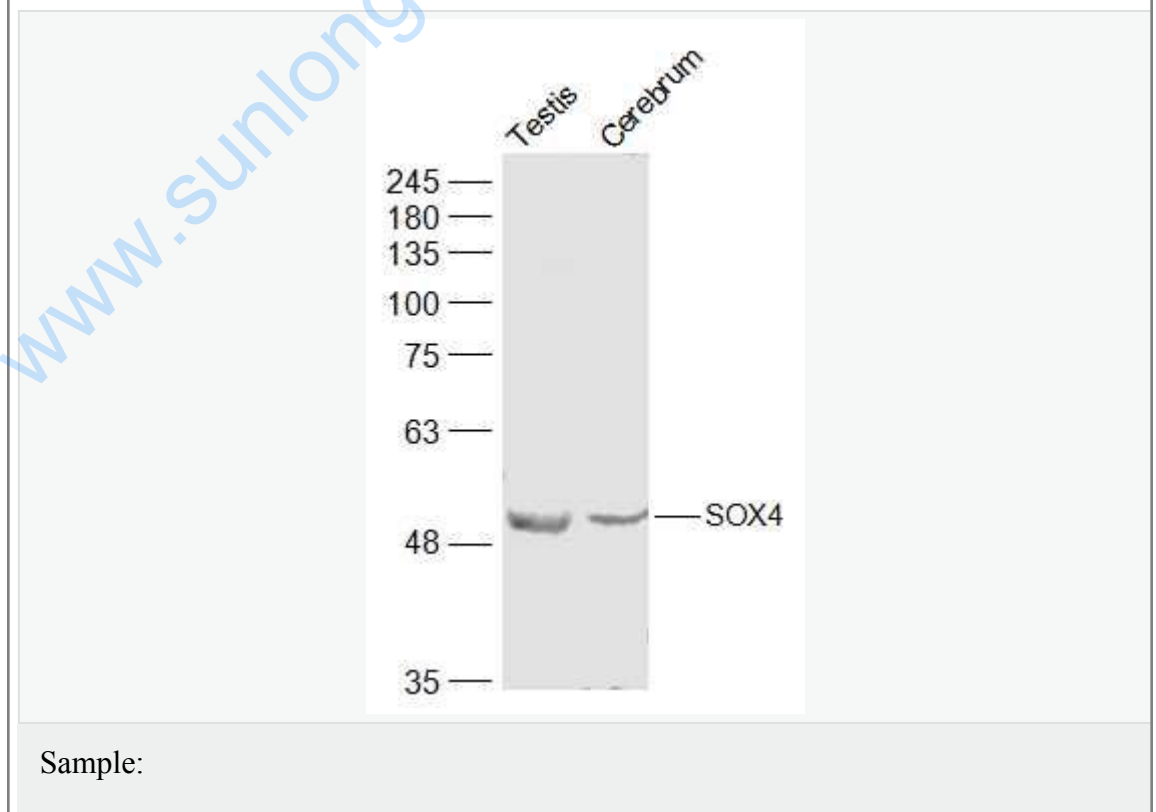
[Unigene: 455819](#) Mouse

[Unigene: 163667](#) Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Picture:**



Testis (Mouse) Lysate at 40 ug

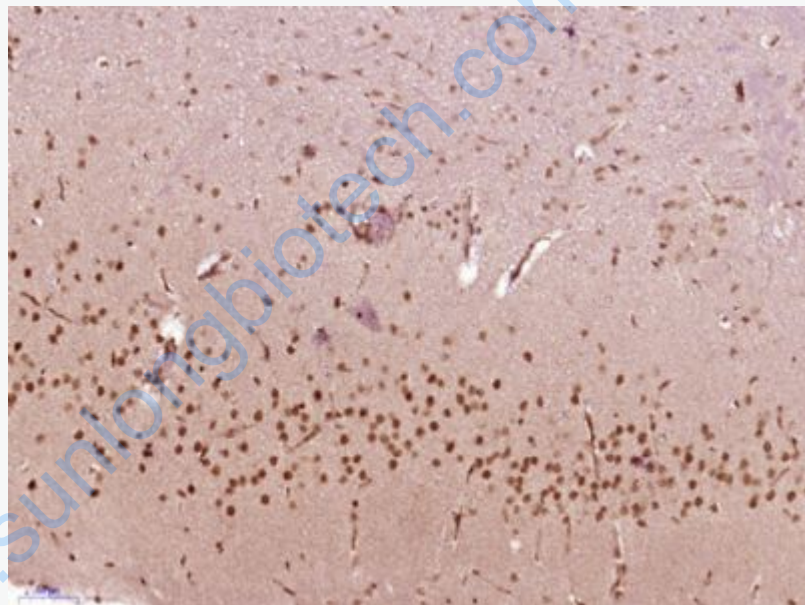
Cerebrum (Mouse) Lysate at 40 ug

Primary: Anti-SOX4 (SL11208R) at 1/500 dilution

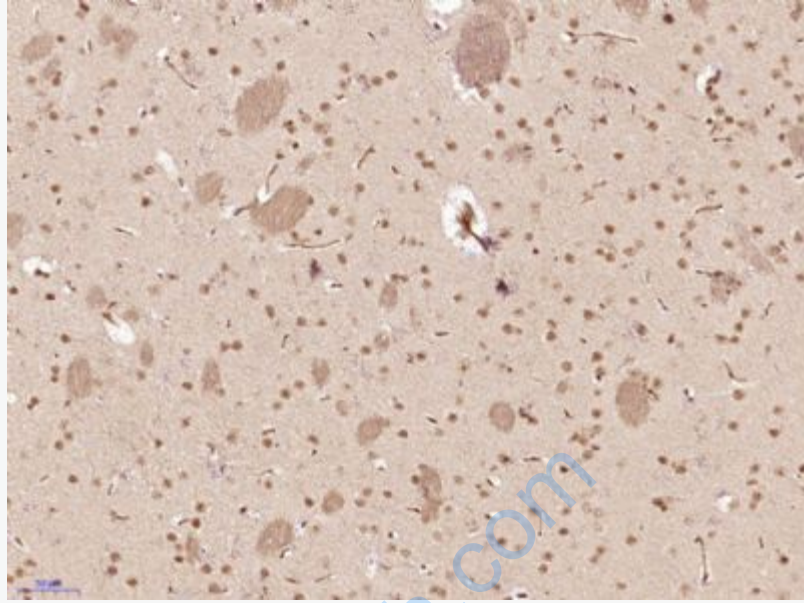
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 52 kD

Observed band size: 52 kD



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 (SIAE) Polyclonal Antibody, Unconjugated (SL11208R) 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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