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[Primary Antibody]

Rabbit Anti-SOX14 antibody

Catalog Number: SL11587R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	SOX14
Immunogen:	KLH conjugated synthetic peptide derived from human SOX14: 51-150/240
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted:Human,Mouse,Rat,Chicken,Sheep)
Predicted MW.:	26kDa
Subcellular Location:	The nucleus
Background:	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,

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	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 (specifically neuronal). SOX14 is most closely related to SOX factors 1,2 and 3 and likely mirrors expression of these genes in the developing brain and spinal cord. **Subcellular Location:** Nuclear **Similarity:** Contains 1 HMG box DNA-binding domain. **Database links:** **Entrez Gene:** 395526 Chicken **Entrez Gene:** 8403 Human **Entrez Gene:** 20669 Mouse Omim: 604747 Human **SwissProt:** Q9W7R6 Chicken **SwissProt:** O95416 Human **SwissProt:** Q04892 Mouse **Unigene:** 248184 Human

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