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[Marker Primary Antibody]

Rabbit Anti-SIX2/Biotin Conjugated antibody

Catalog Number: SL12365R-Bio

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-SIX2/Biotin
Immunogen:	KLH conjugated synthetic peptide derived from human SIX2
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	WB=1000-10000 IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:50-200 IF=1:100-500 ELISA=1:500-5000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted:Human,Mouse,Rat,Dog,Cow,Horse,Sheep)
Background:	background: The Six proteins (sine oculis) are a family of homeodomain transcription factors that share a conserved DNA binding domain. Six2, Six4 (AREC3) and Six5 bind to the same DNA sequence, indicating that they may regulate the same target genes. Six1 and Six4 are both capable of transactivating MEF3 site containing reporter genes, such as myogenin. It has been demonstrated that alterations to homeobox-containing genes may result in cancer. Six1 expression has been shown to be absent or low in normal adult tissues, although it is expressed in several tumor types, including breast carcinoma. Six1 overexpression has been shown to abrogate the G2 cell cycle checkpoint. Six2 is highly expressed in fetal tissues but expression is limited in

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	adult tissues. **Function:** May be involved in limb tendon and ligament development. **Subcellular Location:** Nucleus. **Tissue Specificity:** Strongly expressed in skeletal muscle. **Similarity:** Belongs to the SIX/Sine oculis homeobox family. Contains 1 homeobox DNA-binding domain. **Database links:** UniProtKB/Swiss-Prot: Q9NPC8.1 Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.