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Rabbit Anti-SIX2/Cy5 Conjugated antibody

SL12365R-Cy5

Product Name	Anti-SIX2/Cy5
Chinese Name	Cy5 标记的转录因子同源框蛋白 SIX2 抗体
Alias	Homeobox protein SIX2; OTTHUMP00000201649; Sine oculis homeobox (Drosophila) homolog 2; Sine oculis homeobox homolog 2; Sine oculis homeobox homolog 2 (Drosophila); SIX homeobox 2; Six2; SIX2_HUMAN.
Research Area	Cell biology Developmental biology Stem cells transcriptional regulatory factor Epigenetics
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	(predicted:Human,Mouse,Rat,Dog,Cow,Horse,Sheep)
Applications	ICC/IF=1:50-200,IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	32kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human SIX2
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
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.
Product Detail	**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 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.