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Rabbit Anti-Six3 antibody

SL11970R

Product Name	Six3
Chinese Name	晶状体发育相关蛋白 Six3 抗体
Alias	Homeobox protein SIX3; HPE2; Sine oculis homeobox homolog 3; SIX homeobox 3; Six3; SIX
Research Area	Cell biology Developmental biology Neurobiology transcriptional regulatory factor Epigenetics
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	(predicted: Human, Mouse, Rat, Dog, Pig, Cow, Rabbit, Sheep,)
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 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	35kDa
Cellular localization	The nucleus
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human Six3: 151-250/332
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or d applications.
PubMed	PubMed
Product Detail	The Six proteins (sine oculis) are a family of homeodomain transcription factors that share a con binding domain. Six3 is required for the specification and proliferation of the eye field in vertebra

involved in some developmental disorders of the brain. Expression of Six3 is detected in human e as five to seven weeks of gestation, and is maintained in the eye throughout the entire period of f development. At 20 weeks of gestation, expression of Six3 in the human retina has been observe cells and in cells of the inner nuclear layer. Six3 maps to human chromosome 2p16-p21, betwee markers D2S119 and D2S288. The map position of human Six3 overlaps the positions of two dom (holoprosencephaly type 2 and Malattia leventinese) with ocular phenotypes that have been assig chromosomal region.

Function:
May be involved in visual system development.

Subcellular Location:
Nucleus.

DISEASE:
Defects in SIX3 are the cause of holoprosencephaly type 2 (HPE2) [MIM:157170]. Holoprosenc [MIM:236100] is the most common structural anomaly of the brain, in which the developing for correctly separate into right and left hemispheres. Holoprosencephaly is genetically heterogeneo associated with several distinct facies and phenotypic variability.

Similarity:
Belongs to the SIX/Sine oculis homeobox family.
Contains 1 homeobox DNA-binding domain.

SWISS:
O95343

Gene ID:
6496

Database links:

Entrez Gene: 6496 Human

Entrez Gene: 20473 Mouse

Entrez Gene: 78974 Rat

Omim: 603714 Human

SwissProt: O95343 Human

SwissProt: Q62233 Mouse