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Rabbit Anti-LHX3/AF350 Conjugated antibody

SL18245R-AF350

Product Name	Anti-LHX3/AF350
Chinese Name	AF350 标记的 LHX3 蛋白抗体
Alias	CPHD 3; CPHD3; DKFZp762A2013; LHX 3; LHX3; LHX3_HUMAN; LIM 3; LIM homeobox 3; LIM homeobox gene 3; LIM homeobox protein 3; LIM/homeobox protein Lhx3; LIM/homeodomain protein LHX3; Lim3; M2 LHX3; mLim-3; mLIM3; P LIM.
Research Area	Cell biology immunology Developmental biology Neurobiology transcriptional regulatory factor Epigenetics
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	(predicted:Human,Mouse,Rat,Dog,Pig,Cow,Rabbit)
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	43kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human LHX3
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:** This gene encodes a member a large protein family which carry the LIM domain, a unique cysteine-rich zinc-binding domain. The encoded protein is a

transcription factor that is required for pituitary development and motor neuron specification. Mutations in this gene cause combined pituitary hormone deficiency 3. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2010]

Function:
Acts as a transcriptional activator. Binds to and activates the promoter of the alpha-glycoprotein gene, and synergistically enhances transcription from the prolactin promoter in cooperation with Pit-1.

Subcellular Location:
Nucleus.

DISEASE:
Defects in LHX3 are the cause of pituitary hormone deficiency combined type 3 (CPHD3) [MIM:221750]; also known as combined pituitary hormone deficiency with rigid cervical spine or sensorineural deafness with pituitary dwarfism. CPHD is characterized by a complete deficit in all but one (adrenocorticotropin) anterior pituitary hormone and a rigid cervical spine leading to limited head rotation.

Similarity:
Contains 1 homeobox DNA-binding domain.
Contains 2 LIM zinc-binding domains.

Database links:

Entrez Gene: 8022 Human

Entrez Gene: 16871 Mouse

Entrez Gene: 170671 Rat

Omim: 600577 Human

SwissProt: Q9UBR4 Human

SwissProt: P50481 Mouse

Unigene: 148427 Human

Unigene: 386765 Mouse

Unigene: 198623 Rat

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