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LHX3 Rabbit pAb

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Catalog # AP57010

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9UBR4
Predicted	Rat, Pig, Dog, Human, Mouse, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43358
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human LHX3
Epitope Specificity	1-100/397
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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]

Additional Information

Gene ID	8022
Other Names	LIM/homeobox protein Lhx3, LIM homeobox protein 3, LHX3
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	LHX3
Function	Transcription factor. Recognizes and binds to the consensus sequence motif 5'-AATTAATTA-3' in the regulatory elements of target genes, such as glycoprotein hormones alpha chain CGA and visual system homeobox CHX10, positively modulating transcription; transcription can be co-activated by LDB2. Synergistically enhances transcription from the prolactin promoter in cooperation with POU1F1/Pit-1 (By similarity). Required for the establishment of the specialized cells of the pituitary gland and the nervous system (PubMed:21149718). Involved in the development of interneurons and motor neurons in cooperation with LDB1 and ISL1 (By similarity).
Cellular Location	Nucleus.

Background

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