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LHX5 Rabbit pAb

Catalog # AP98097

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q9H2C1
Other Accession	Q9H2C1
Predicted	Rat, Pig, Human, Mouse, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44406
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human LHX5
Epitope Specificity	25-130/402
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 homeobox DNA-binding domain. Contains 2 LIM zinc-binding domains.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	During development, genetically distinct subtypes of motor neurons express unique combinations of LIM-type homeodomain factors, which regulate cell migration and guide motor axons to establish the fidelity of a binary choice in axonal trajectory. The LIM gene family encodes a set of gene products, which carry the LIM domain, a unique cysteine-rich zinc-binding domain. At least 40 members of this family have been identified in vertebrates and invertebrates, and are distributed into 4 groups according to the number of LIM domains and to the presence of homeodomains and kinase domains. The human LHX5 gene maps to chromosome 12q23-q24 and encodes a 402 amino acid protein. The hippocampus contains the neural circuitry, which is crucial for cognitive functions such as learning and memory. LHX5 regulates precursor cell proliferation and neuronal differentiation and migration during hippocampal development.

Additional Information

Gene ID	64211
Other Names	Lim2; XELAEV_18010382mg; Xlim5; lhx5; lim2a; lim5; lim5/Lhx5; LHX5_HUMAN; LIM homeobox protein 5; LHX5_MOUSE; LHX5_RAT; Homeobox protein LIM-2; Lim-2; LHX5_XENLA; Homeobox protein LIM-5 (xLIM-5); xLIM-2A; LHX5_DANRE; Homeobox protein LIM-5; LIM homeobox 5; LIM/homeobox protein Lhx5
Dilution	WB=1:500-2000,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	LHX5
Function	Plays an essential role in the regulation of neuronal differentiation and migration during development of the central nervous system.
Cellular Location	Nucleus.
Tissue Location	Expressed in fetal brain and in various regions of the adult central nervous system including the spinal cord, the thalamus, and the cerebellum

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.