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LHX2 Rabbit pAb

Catalog # AP97678

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P50458
Other Accession	P50458
Reactivity	Rat, Human, Mouse
Predicted	Pig, Rabbit, Chicken, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44373
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human LHX2
Epitope Specificity	251-330/406
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 omains.
SUBUNIT	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 overlapping expression of LHX1, LHX3, LHX4, Isl-1 and Isl-2 in developing motor neurons along the spinal column may influence the establishment of specific motor neuron subtypes. The human LHX2 gene maps to chromosome 9q33.3 and encodes a 389 amino acid protein. LHX2 is involved in early patterning of the telencephalon, where the neuroepithelium is first divided into cortical tissue and cortical hem.

Additional Information

Gene ID	9355
Other Names	LH2A; Lh-2; Lim2; ap; apterous; LHX2_MOUSE; Lhx2; Homeobox protein LH-2; LIM homeobox protein 2; LHX2_RAT; Lh2; LHX2_HUMAN; hLhx2; LIM homeobox 2; LIM/homeobox protein Lhx2

Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1 μg/Test
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	LHX2
Synonyms	LH2
Function	Acts as a transcriptional activator. Stimulates the promoter of the alpha-glycoprotein gene. Transcriptional regulatory protein involved in the control of cell differentiation in developing lymphoid and neural cell types (By similarity).
Cellular Location	Nucleus.

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