



Rabbit Anti-LHX5 antibody

SL11870R

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| Product Name: | LHX5 |
| Chinese Name: | LHX5蛋白抗体 |
| Alias: | LHX 5; Lhx5; LHX5_HUMAN; LIM homeobox 5; LIM homeobox protein 5; LIM/homeobox protein Lhx5; MGC129689. |
| Organism Species: | Rabbit |
| Clonality: | Polyclonal |
| React Species: | Human,Mouse,Rat,Pig,Cow,Horse,Rabbit,Sheep, |
| Applications: | WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. |
| Molecular weight: | 44kDa |
| Cellular localization: | The nucleus |
| Form: | Lyophilized or Liquid |
| Concentration: | 1mg/ml |
| immunogen: | KLH conjugated synthetic peptide derived from human LHX5:25-130/402 |
| Lsotype: | IgG |
| Purification: | affinity purified by Protein A |
| Storage Buffer: | 0.01M TBS(pH7.4) with 1% BSA, 0.03% 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 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| PubMed: | PubMed |
| Product Detail: | 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.

Function:

Plays an essential role in the regulation of neuronal differentiation and migration during development of the central nervous system.

Subcellular Location:

Nucleus.

Tissue Specificity:

Expressed in fetal brain and in various regions of the adult central nervous system including the spinal cord, the thalamus, and the cerebellum.

Similarity:

Contains 1 homeobox DNA-binding domain.

Contains 2 LIM zinc-binding domains.

SWISS:

Q9H2C1

Gene ID:

64211

Database links:

[Entrez Gene: 520759](#)Cow

[Entrez Gene: 64211](#)Human

[Entrez Gene: 16873](#)Mouse

[Entrez Gene: 124451](#)Rat

[Entrez Gene: 399270](#)Xenopus laevis

[Entrez Gene: 30465](#)Zebrafish

[Omim: 605992](#)Human

[SwissProt: Q9H2C1](#)Human

[SwissProt: P61375](#)Mouse

[SwissProt: P61376](#)Rat

[SwissProt: P37137](#)Xenopus laevis

[SwissProt: P52889](#)Zebrafish

Important Note:

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