

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects recombinant human LHX5 in direct ELISAs and Western blots. In direct ELISAs, approximately 20% cross-reactivity with recombinant human (rh) LIM1 is observed, and less than 5% cross-reactivity with rhLHX2, and rhLHX9 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human LHX5 Leu265-Trp402 Accession # Q9H2C1
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

LHX5 (LIM/homeobox protein 5) is a member of the LIM homeobox gene family. It is expressed in embryonic CNS, and appears to contribute to the formation and maintenance of multiple neuronal phenotypes. In the cerebellum, LHX5 promotes Purkinje cell development; in the spinal cord, LHX5 maintains a GABAergic phenotype in select dorsal horn interneurons. LHX5 is reported to act as a Wnt pathway antagonist through its stimulation of sFRP-1 and -5 secretion. Human LHX5 is 402 amino acids (aa) in length. It contains two LIM Zn-binding domains (aa 3-61 and 62-125), one phosphorylation site at Tyr119, and a DNA-binding homeodomain (aa 180-239). Over aa 265-402, human LHX5 shares 97% aa identity with mouse LHX5, and 60% aa identity with its paralogue (common ancestral) gene, LHX1.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.