

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 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.

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