

LHX4 Antibody (monoclonal) (M04)

Mouse monoclonal antibody raised against a partial recombinant LHX4.

Catalog # AT2706a

Product Information

Application	IHC, E
Primary Accession	Q969G2
Other Accession	NM_033343
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	2F3
Calculated MW	43124

Additional Information

Gene ID	89884
Other Names	LIM/homeobox protein Lhx4, LIM homeobox protein 4, LHX4
Target/Specificity	LHX4 (NP_203129, 208 a.a. ~ 306 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	IHC~~1:100~500 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	LHX4 Antibody (monoclonal) (M04) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

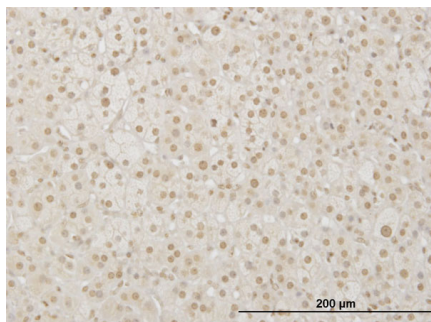
This gene encodes a member of a large protein family which contains the LIM domain, a unique cysteine-rich zinc-binding domain. The encoded protein may function as a transcriptional regulator and be involved in control of differentiation and development of the pituitary gland. Mutations in this gene are associated with syndromic short stature and pituitary and hindbrain defects. An alternative splice variant has been described but its biological nature has not been determined.

References

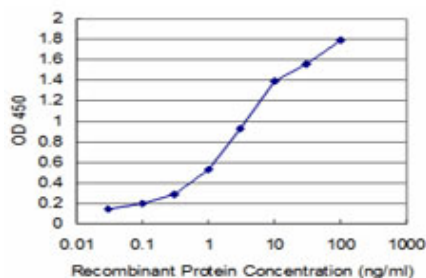
Mutation and gene copy number analyses of six pituitary transcription factor genes in 71 patients with combined pituitary hormone deficiency: identification of a single patient with LHX4 deletion. Dateki S, et al. J

Clin Endocrinol Metab, 2010 Aug. PMID 20534763. A novel dysfunctional LHX4 mutation with high phenotypical variability in patients with hypopituitarism. Castinetti F, et al. J Clin Endocrinol Metab, 2008 Jul. PMID 18445675. Three novel missense mutations within the LHX4 gene are associated with variable pituitary hormone deficiencies. Pfaeffle RW, et al. J Clin Endocrinol Metab, 2008 Mar. PMID 18073311. Specificity protein 1 (Sp1) plays role in regulating LIM homeodomain transcription factor Lhx4 gene expression. Liu S, et al. Biochem Biophys Res Commun, 2008 Feb 1. PMID 18053794. The C terminus of the synovial sarcoma-associated SSX proteins interacts with the LIM homeobox protein LHX4. de Bruijn DR, et al. Oncogene, 2008 Jan 24. PMID 17667940.

Images



Immunoperoxidase of monoclonal antibody to LHX4 on formalin-fixed paraffin-embedded human adrenal gland. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged LHX4 is approximately 0.1 ng/ml as a capture antibody.

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