

Purified anti-LHX6.1 Antibody

Catalog# / Size	857301 / 25 µg 857302 / 100 µg
Clone	N228A/16
Regulatory Status	RUO
Other Names	LHX6, LHX6.1
Isotype	Mouse IgG1, κ
Description	LHX6 is a transcription factor that belongs to the LIM-homeobox protein family. LHX6 contains two LIM domains, followed by one homeodomain (HD). The protein has been shown to play an important role during neurodevelopment where it functions as a cell fate regulator that controls differentiation and development of neural cells, especially cholinergic and GABAergic neurons ¹ . In the nervous system, LHX6 is mainly expressed in neurons, including motor neurons, interneurons, and sensory neurons.

Product Details

Reactivity	Human, Mouse
Antibody Type	Monoclonal
Host Species	Mouse
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	IHC-P - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by formalin-fixed paraffin-embedded immunohistochemical staining. For immunohistochemistry, a concentration range of 5.0 - 10 µg/ml is suggested. It is recommended that the reagent be titrated for optimal performance for each application.
RRID	AB_2783471 (BioLegend Cat. No. 857301) AB_2783472 (BioLegend Cat. No. 857302)

Antigen Details

Structure	LHX6 is a 363 amino acid protein with an apparent molecular mass of ~ 40 kD.
Distribution	Tissue Distribution: Ubiquitously expressed in all tissues. Cellular Distribution: Nucleus
Function	LHX6 functions as a cell fate regulator that controls differentiation and development of neural cells.
Interaction	Forms homodimers or heterodimers with other LHX family members such as LHX8. Interacts with LDB1, PITX2, RLIM
Biology Area	Cell Biology, Neuroinflammation, Neuroscience, Neuroscience Cell Markers, Synaptic Biology
Molecular Family	Postsynaptic proteins
Antigen References	1. Zhou C, <i>et al.</i> 2015 <i>FASEB J.</i> 29(10):4083

- Nathalia E, et al. 2018. *Rom J Intern Med.* 56(3):135
- Wullimann MF, et al. 2009. *Integr Zool.* 4(1):123

Gene ID [26468](#)
[16874](#)

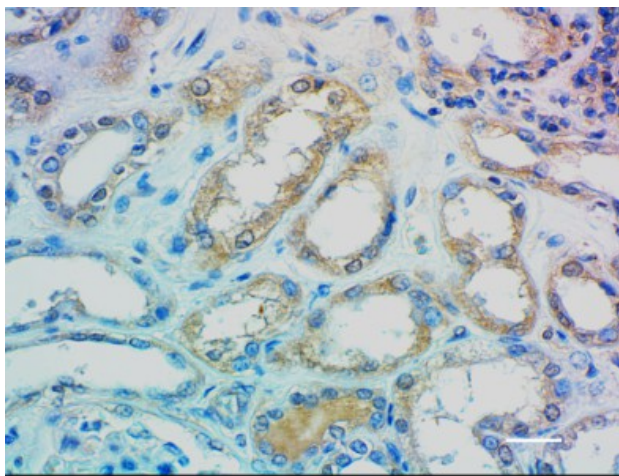
Related Protocols

[Immunohistochemistry Protocol for Paraffin-Embedded Sections](#)

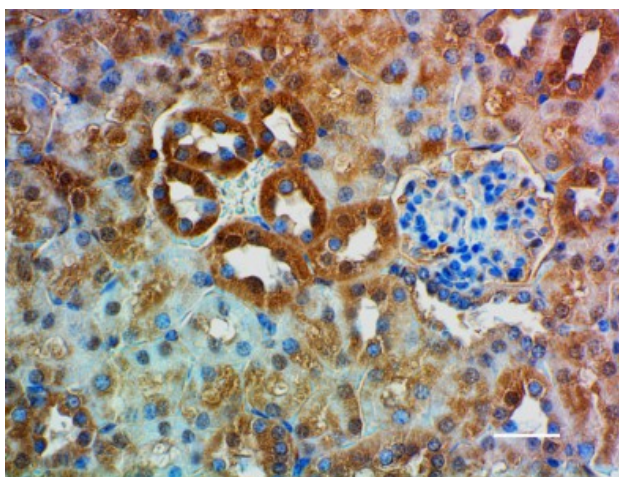
Other Formats

Purified anti-LHX6.1

Product Data



IHC staining of purified anti-LHX6.1 antibody (clone N228A/16) on formalin-fixed paraffin-embedded human kidney tissue. Following antigen retrieval using Sodium Citrate H.I.E.R (Cat. No. 928602), the tissue was incubated with 1 µg/ml of the primary antibody overnight at 4°C. BioLegend's Ultra Streptavidin (USA) HRP Detection Kit (Multi-Species, DAB, Cat. No. 929901) was used for detection followed by hematoxylin counterstaining, according to the protocol provided. The image was captured with a 40X objective. Scale bar: 50 µm



IHC staining of purified anti-LHX6.1 antibody (clone N228A/16) on formalin-fixed paraffin-embedded mouse kidney tissue. Following antigen retrieval using Sodium Citrate H.I.E.R (Cat. No. 928602), the tissue was incubated with 1 µg/ml of the primary antibody overnight at 4°C. BioLegend's Ultra Streptavidin (USA) HRP Detection Kit (Multi-Species, DAB, Cat. No. 929901) was used for detection followed by hematoxylin counterstaining, according to the protocol provided. The image was captured with a 40X objective. Scale bar: 50 µm

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