

Rabbit anti-Human LHX6 Polyclonal Antibody | anti-LHX6 antibody

Anti-LHX6 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127457	Rabbit	Human	ELISA, Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

LHX6; Polyclonal Antibody; Anti-LHX6 Antibody Picoband; BAG family molecular chaperone regulator 5; C-C motif chemokine ligand 16 ; C-C motif chemokine 16; Chemokine CC-4; HCC-4; Chemokine LEC; IL-10-inducible chemokine; LCC-1; Liver-expressed chemokine; Lymphocyte and monocyte chemoattractant; LMC; Monotactin-1; MTN-1; NCC-4; Small-inducible cytokine A16; CCL16; ILINCK; NCC4; SCYA16; anti-LHX6 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Mainly expressed in liver, also found in spleen and thymus. Highly expressed in LPS- and IFN-gamma- activated monocytes, weakly in some lymphocytes, including natural killer cells, gamma-delta T-cells, and some T-cell clones.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-LHX6 antibody	ELISA, IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human LHX6 recombinant protein (Position: C8-Y363).
Subcellular Localization	Secreted
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Shows chemotactic activity for lymphocytes and monocytes but not neutrophils. Also shows potent myelosuppressive activity, suppresses proliferation of myeloid progenitor cells. Recombinant SCYA16 shows chemotactic activity for monocytes and THP-1 monocytes, but not for resting lymphocytes and neutrophils. Induces a calcium flux in THP-1 cells that were desensitized by prior expression to RANTES.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



IF (Immunofluorescence)

Figure 3. IF analysis of LHX6 using anti-LHX6 antibody (AAA127457) and anti-Beta Tubulin antibody (M01857-3).LHX6 was detected in immunocytochemical section of U2OS cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-LHX6 Antibody (AAA127457) and mouse anti-Beta Tubulin antibody (M01857-3) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) and DyLight488 Conjugated Goat Anti-Mouse IgG (BA1126) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of LHX6 using anti-LHX6 antibody (AAA127457).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human Hela whole cell lysates,Lane 2: human 293T whole cell lysates,Lane 3: human HepG2 whole cell lysates,Lane 4: human Caco-2 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-LHX6 antigen affinity purified polyclonal antibody (#AAA127457) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for LHX6 at approximately 60 kDa. The expected band size for LHX6 is at 40 kDa.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of LHX6 using anti-LHX6 antibody (AAA127457).LHX6 was detected in a paraffin-embedded section of human thyroid cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-LHX6 Antibody (AAA127457) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-LHX6 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-LHX6 antibody	Primary Antibodies; Angiogenesis; Cardiovascular; Chemokines; Cytokines; Immunology; Innate Immunity; Macrophage/Inflammation
References	1. Choi, G. B., Dong, H., Murphy, A. J., Valenzuela, D. M., Yancopoulos, G. D., Swanson, L. W., Anderson, D. J. Lhx6 delineates a pathway mediating innate reproductive behaviors from the amygdala to the hypothalamus. Neuron 46: 647-660, 2005.2. Flandin, P., Zhao, Y., Vogt, D., Jeong, J., Long, J., Potter, G., Westphal, H., Rubenstein, J. L. R. Lhx6 and Lhx8 coordinately induce neuronal expression of Shh that controls the generation of interneuron progenitors. Neuron 70: 939-950, 2011. 3. Gong, S., Zheng, C., Doughty, M. L., Losos, K., Didkovsky, N., Schambra, U. B., Nowak, N. J., Joyner, A., Leblanc, G., Hatten, M. E., Heintz, N. A gene expression atlas of the central nervous system based on bacterial artificial chromosomes. Nature 425: 917-925, 2003.

NCBI AND UNIPROT INFORMATION

NCBI GI #	134284359
NCBI GeneID	26468
NCBI Accession #	NP_055183.2
NCBI GenBank Nucleotide #	NM_014368.4
UniProt Accession #	Q9UPM6; Q5T7S7; Q5T7S8; Q9NTK3; Q9UPM5; A6PVQ1; A6PVQ2; A8K1B2; B7Z4D0; H0YN76

Molecular Weight	19,618 Da
NCBI Official Full Name	LIM/homeobox protein Lhx6 isoform 1
NCBI Official Synonym Full Names	LIM homeobox 6
NCBI Official Symbol	LHX6
NCBI Official Synonym Symbols	LHX6.1
NCBI Protein Information	LIM/homeobox protein Lhx6
UniProt Protein Name	LIM/homeobox protein Lhx6
UniProt Gene Name	LHX6
UniProt Synonym Gene Names	LHX6.1; LIM homeobox protein 6
UniProt Entry Name	LHX6_HUMAN

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