

Datasheet for ABIN7600792  
**anti-LHX4 antibody (AA 238-390)**



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## Overview

|                      |                                                     |
|----------------------|-----------------------------------------------------|
| Quantity:            | 100 µg                                              |
| Target:              | LHX4                                                |
| Binding Specificity: | AA 238-390                                          |
| Reactivity:          | Human                                               |
| Host:                | Rabbit                                              |
| Clonality:           | Polyclonal                                          |
| Conjugate:           | This LHX4 antibody is un-conjugated                 |
| Application:         | Western Blotting (WB), ELISA, Flow Cytometry (FACS) |

## Product Details

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| Purpose:                    | Anti-LHX4 Antibody Picoband®                                                                                                                                                                                                                                                                                                                                                                                     |
| Immunogen:                  | E.coli-derived human LHX4 recombinant protein (Position: S238-F390).                                                                                                                                                                                                                                                                                                                                             |
| Isotype:                    | IgG                                                                                                                                                                                                                                                                                                                                                                                                              |
| Cross-Reactivity (Details): | No cross-reactivity with other proteins.                                                                                                                                                                                                                                                                                                                                                                         |
| Characteristics:            | Anti-LHX4 Antibody Picoband® (ABIN7600792). Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human. 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. |
| Purification:               | Immunogen affinity purified.                                                                                                                                                                                                                                                                                                                                                                                     |

## Target Details

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| Target:           | LHX4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Alternative Name: | LHX4 ( <a href="#">LHX4 Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Background:       | <p>Synonyms: Atypical chemokine receptor 2, C-C chemokine receptor D6, Chemokine receptor CCR-10, Chemokine receptor CCR-9, Chemokine-binding protein 2, Chemokine-binding protein D6, ACKR2, CCBP2, CCR10, CMKBR9, D6</p> <p>Tissue Specificity: Found in endothelial cells lining afferent lymphatics in dermis and lymph nodes. Also found in lymph nodes subcapsular and medullary sinuses, tonsillar lymphatic sinuses and lymphatics in mucosa and submucosa of small and large intestine and appendix. Also found in some malignant vascular tumors. Expressed at high levels in Kaposi sarcoma-related pathologies. Expressed on apoptotic neutrophils (at protein level). Expressed primarily in placenta and fetal liver, and found at very low levels in the lung and lymph node.</p> <p>Background: LIM/homeobox protein Lhx4 is a protein that in humans is encoded by the LHX4 gene. 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 is a transcription factor involved in the control of differentiation and development of the pituitary gland. Mutations in this gene cause combined pituitary hormone deficiency 4.</p> |
| Molecular Weight: | 43 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Gene ID:          | 89884                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| UniProt:          | <a href="#">Q969G2</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

## Application Details

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| Application Notes: | <p>Western blot, 0.25-0.5 µg/mL, Human</p> <p>Flow Cytometry (Fixed), 1-3 µg/1×10<sup>6</sup> cells, Human</p> <p>ELISA, 0.1-0.5 µg/mL, -</p> <p>1. Castinetti, F., Saveanu, A., Reynaud, R., Quentien, M. H., Buffin, A., Brauner, R., Kaffel, N., Albarel, F., Guedj, A. M., El Kholy, M., Amin, M., Enjalbert, A., Barlier, A., Brue, T. A novel dysfunctional LHX4 mutation with high phenotypical variability in patients with hypopituitarism. J. Clin. Endocr. Metab. 93: 2790-2799, 2008. 2. Dawid, I. B., Toyama, R., Taira, M. LIM domain proteins. C. R. Acad. Sci. III 318: 295-306, 1995. 3. Kawamata, N., Sakajiri, S., Sugimoto, K., Isobe, Y., Kobayashi, H., Oshimi, K. A novel chromosomal translocation t(1,14)(q25,q32) in pre-B acute lymphoblastic leukemia involves the LIM homeodomain protein gene, Lhx4. Oncogene 21: 4983-4991, 2002.</p> |
| Restrictions:      | For Research Use only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Handling

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| Format:          | Lyophilized                                                                                                                                                                                          |
| Reconstitution:  | Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.                                                                                                                            |
| Concentration:   | 500 µg/mL                                                                                                                                                                                            |
| Buffer:          | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                            |
| Storage:         | 4 °C, -20 °C                                                                                                                                                                                         |
| Storage Comment: | At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month.<br>It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing. |