

# Anti-Hex Picoband Antibody

Catalog # ABO12317

## Product Information

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|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB                                                                                                                                        |
| <b>Primary Accession</b> | <a href="#">Q03014</a>                                                                                                                    |
| <b>Host</b>              | Rabbit                                                                                                                                    |
| <b>Reactivity</b>        | Human, Mouse, Rat                                                                                                                         |
| <b>Clonality</b>         | Polyclonal                                                                                                                                |
| <b>Format</b>            | Lyophilized                                                                                                                               |
| <b>Description</b>       | Rabbit IgG polyclonal antibody for Hematopoietically-expressed homeobox protein Hhex(HHEX) detection. Tested with WB in Human;Mouse; Rat. |
| <b>Reconstitution</b>    | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                      |

## Additional Information

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| <b>Gene ID</b>                  | 3087                                                                                                                                                                                           |
| <b>Other Names</b>              | Hematopoietically-expressed homeobox protein HHEX, Homeobox protein HEX, Homeobox protein PRH, HHEX, HEX, PRH, PRHX                                                                            |
| <b>Calculated MW</b>            | 30022                                                                                                                                                                                          |
| <b>Application Details</b>      | Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat                                                                                                                                                 |
| <b>Subcellular Localization</b> | Nucleus .                                                                                                                                                                                      |
| <b>Tissue Specificity</b>       | Liver and promyelocytic leukemia cell line HL- 60. .                                                                                                                                           |
| <b>Source</b>                   | Eukaryota                                                                                                                                                                                      |
| <b>Protein Name</b>             | Hematopoietically-expressed homeobox protein Hhex                                                                                                                                              |
| <b>Contents</b>                 | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .                                                                                     |
| <b>Immunogen</b>                | A synthetic peptide corresponding to a sequence in the middle region of human Hex(146-180aa NDQTIELEKKFETQKYLSPPERKRLAKMLQLSERQ), different from the related mouse sequence by one amino acid. |
| <b>Purification</b>             | Immunogen affinity purified.                                                                                                                                                                   |
| <b>Cross Reactivity</b>         | No cross reactivity with other proteins                                                                                                                                                        |
| <b>Storage</b>                  | At -20 °C for one year. After r ° Constitution, at 4 °C for one month. It ° Can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.          |

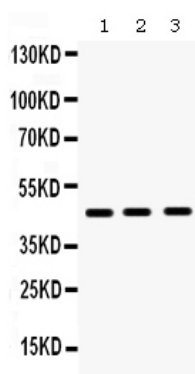
## Protein Information

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|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>              | HHEX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Synonyms</b>          | HEX, PRH, PRHX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Function</b>          | Recognizes the DNA sequence 5'-ATTAA-3' (By similarity). Transcriptional repressor (By similarity). Activator of WNT-mediated transcription in conjunction with CTNNB1 (PubMed: <a href="#">20028982</a> ). Establishes anterior identity at two levels; acts early to enhance canonical WNT- signaling by repressing expression of TLE4, and acts later to inhibit NODAL-signaling by directly targeting NODAL (By similarity). Inhibits EIF4E-mediated mRNA nuclear export (PubMed: <a href="#">12554669</a> ). May play a role in hematopoietic differentiation (PubMed: <a href="#">8096636</a> ). |
| <b>Cellular Location</b> | Nucleus {ECO:0000250 UniProtKB:P43120}. Nucleus, nuclear body. Cytoplasm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Tissue Location</b>   | Liver and promyelocytic leukemia cell line HL-60.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## Background

Hematopoietically-expressed homeobox protein HHEX is a protein that in humans is encoded by the HHEX gene. Homeobox genes are members of a family of transcription factors that regulate tissue development in many different organisms. Hromas et al. (1993) set out to identify homeobox genes that might play a role in hematopoiesis. And using somatic cell hybrid analysis, they mapped the HHEX gene to chromosome 10, where the HOX11 gene is located. Homeobox genes are involved in neoplastic transformation of both epithelial and hemopoietic tissues. The divergent homeobox gene HEX is expressed in the anterior visceral endoderm during early mouse development and in some adult tissues of endodermal origin, including liver and thyroid. D'Elia et al.  $\square$ ™s findings suggested that regulation of HEX entry in the nucleus of thyrocytes may represent a critical step during human thyroid tumorigenesis.

## Images



Anti- Hex Picoband antibody, ABO12317, Western blotting  
All lanes: Anti Hex (ABO12317) at 0.5ug/ml  
Lane 1: Rat Liver Tissue Lysate at 50ug  
Lane 2: Mouse Liver Tissue Lysate at 50ug  
Lane 3: HEPG Whole Cell Lysate at 40ug  
Predicted bind size: 47KD  
Observed bind size: 47KD

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