

Anti-Hex Antibody
Catalog # ABO10652**Specification**

Anti-Hex Antibody - Product Information

Application	WB
Primary Accession	Q03014
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Hematopoietically-expressed homeobox protein HHEX(HHEX) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Hex Antibody - Additional Information

Gene ID 3087

Other Names

Hematopoietically-expressed homeobox protein HHEX, Homeobox protein HEX, Homeobox protein PRH, HHEX, HEX, PRH, PRHX

Calculated MW

30022 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse

Subcellular Localization

Nucleus .

Tissue Specificity

Liver and promyelocytic leukemia cell line HL- 60. .

Protein Name

Hematopoietically-expressed homeobox protein Hhex(Homeobox protein HEX)

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminus of human Hex(24-39aa QPAHPTPFYIEDILGR), different from the related mouse sequence by one amino acid.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, 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.

Anti-Hex Antibody - Protein Information

Name HHEX

Synonyms HEX, PRH, PRHX

Function

Recognizes the DNA sequence 5'-ATTAA-3' (By similarity). Transcriptional repressor (By similarity). Activator of WNT-mediated transcription in conjunction with CTNNB1 (PubMed: [20028982](http://www.uniprot.org/citations/20028982)). 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: [12554669](http://www.uniprot.org/citations/12554669)). May play a role in hematopoietic differentiation (PubMed: [8096636](http://www.uniprot.org/citations/8096636)).

Cellular Location

Nucleus {ECO:0000250|UniProtKB:P43120}. Nucleus, nuclear body. Cytoplasm

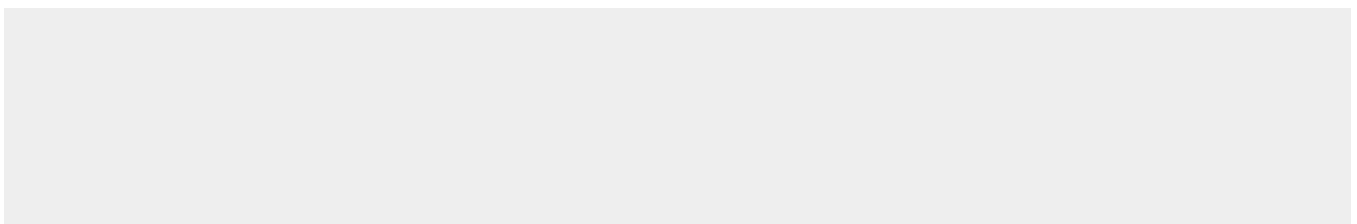
Tissue Location

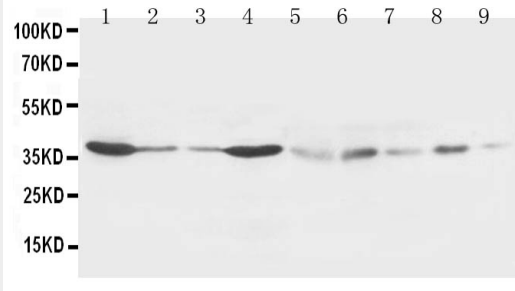
Liver and promyelocytic leukemia cell line HL-60.

Anti-Hex Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Hex Antibody - Images



Anti-Hex antibody, ABO10652, Western blotting
Lane 1: Rat Liver Tissue Lysate
Lane 2: Rat Thymus Tissue Lysate
Lane 3: Rat Lung Tissue Lysate
Lane 4: Rat Pancreas Tissue Lysate
Lane 5: HT1080 Cell Lysate
Lane 6: MM453 Cell Lysate
Lane 7: SMMC Cell Lysate
Lane 8: 6T-CEM Cell Lysate
Lane 9: COLO320 Cell Lysate

Anti-Hex Antibody - 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.'s findings suggested that regulation of HEX entry in the nucleus of thyrocytes may represent a critical step during human thyroid tumorigenesis.