

Polyclonal Anti-HHEX Antibody

Catalog Number: PA1326

Description

Gene Name	hematopoietically expressed homeobox
Recommended Protein Name	Hematopoietically-expressed homeobox protein Hhex
Lot No.	0131012012664
Size	100µg/vial
Form	lyophilized
Ig type	Rabbit IgG
Specificity	No cross reactivity with other proteins.
Purification	Immunogen affinity purified.
Species	Reacts with: human, rat Predicted to work with: mouse
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human HHEX (24-39aa QPAHPTPFYIEDILGR), different from the related mouse sequence by one amino acid.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .

Application

	Concentration	Tested Species	Predicted Species	Antigen Retrieval
Western blot	0.1-0.5µg/ml	Hu, Rat	Ms	-

Tested Species: In-house tested species with positive results.

Predicted Species: Species predicted to be fit for the product based on sequence similarities.

Other applications have not been tested.

Optimal dilutions should be determined by end users.

Preparation and storage

Reconstitution: 0.2ml of distilled water will yield a concentration of 500µg/ml.

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.

Relevant detection systems

Boster provides a series of assays reacted with primary antibodies. Antibody can be supported by chemiluminescence kit EK1002 in WB.

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.

Reference

1. Hromas, R., Radich, J., Collins, S. PCR cloning of an orphan homeobox gene (PRH) preferentially expressed in myeloid and liver cells. *Biochem. Biophys. Res. Commun.* 195: 976-983, 1993.
2. D'Elia, A. V., Tell, G., Russo, D., Arturi, F., Puglisi, F., Manfioletti, G., Gattei, V., Mack, D. L., Cataldi, P., Filetti, S., Di Loreto, C., Damante, G. Expression and localization of the homeodomain-containing protein HEX in human thyroid tumors. *J. Clin. Endocr. Metab.* 87: 1376-1383, 2002.