



## Product Information Sheet

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### **Polyclonal Anti- Hematopoietically-expressed Homeobox Protein, *HHEX***

**Catalogue No.** PA1326

**Immunogen**

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

**Lot No.** 013101212664

**Purity**

Immunogen affinity purified.

**Ig type** rabbit IgG

**Contents**

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN<sub>3</sub>.

**Size** 100µg/vial

**Storage**

Store at 4°C for frequent use.

**Specificity**

Human, rat.

No cross reactivity with other proteins.

**Description**

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified magnetic beads. It is useful for immunoprecipitation

**Recommended application**

*Western blot*

#### **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.

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