



## Product Information Sheet

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

**Catalogue No.** PA1326

**Lot No.** 013101212664

**Ig type** rabbit IgG

**Size** 100µg/vial

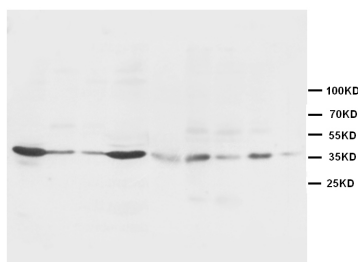
#### Specificity

Human, rat.

No cross reactivity with other proteins.

#### Recommended application

Western blot



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 Whole Cell Lysate  
Lane 6 : MM453 Whole Cell Lysate  
Lane 7 : SMMC Whole Cell Lysate  
Lane 8 : 6T-CEM Whole Cell Lysate  
Lane 9 : Colo320 Whole Cell Lysate

#### 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.

#### Purity

Immunogen affinity purified.

#### Application

	Concentration	Tested Species	Concluded Species	Antigen Retrieval
WB	0.5µg/ml	Hu, Rat	Ms	-
IHC-P	-	-	-	-
IHC-F	-	-	-	-
ICC	-	-	-	-

*Other applications have not been tested.*

*Optimal dilutions should be determined by end user.*

#### Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

#### 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 longer time.

To reorder contact us at:

**Antagene, Inc.**

**Toll Free: 1(866)964-2589**

**email: Info@antageneinc.com**

**FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC AND CLINICAL USE.**

## **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.