

Rabbit Anti-HHEX Polyclonal: RC0150

Intended Use: For Research Use Only

Description: Hematopoietically-expressed homeobox protein (HHEX), also known as HEX, PRH and PRHX, is a 35-40 kDa member of the Homeobox family of transcription factors. Family members are distinguished by an evolutionarily conserved DNA-binding homeodomain of 60 amino acids, which for HHEX spans aa 137-196. Human HHEX was initially isolated from hematopoietic tissue, and is present in several hematopoietic progenitors, where its expression is down-regulated during terminal cell differentiation. HHEX is also expressed in the anterior visceral endoderm during early mouse development, and in some adult tissues of endodermal origin, including liver, lung and thyroid. Hex plays a critical role in inducing differentiation of vascular endothelial cells, in the development and maintenance of several organs derived from foregut endoderm, such as the lung, liver and thyroid gland, and in thyroid cell differentiation. Hex also mediates transcriptional induction of the SMemb/NMHC-B gene via its homeodomain and can function as a transcriptional modulator of CRE-dependent transcription in vascular smooth muscle cells (VSMCs). Hex, a soluble protein, is detected in both the nucleus and cytoplasm of transfected and nontransfected cultured cells.

Specifications

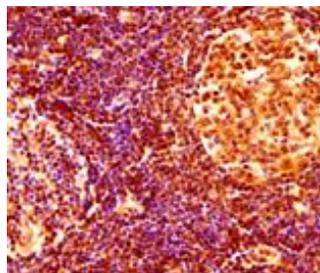
Clone:	Polyclonal
Source:	Rabbit
Isotype:	IgG
Reactivity:	Human
Immunogen:	Recombinant human hematopoietically-expressed homeobox HHEX protein aa187-204
Localization:	Nucleus
Formulation:	Affinity purified antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC, ELISA
Package:	

Description	Catalog No.	Size
HHEX Polyclonal Concentrated	RC0150	1 ml

IHC Procedure*

Positive Control Tissue:	Lymph node
Concentrated Dilution:	10-50
Pretreatment:	Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp:	Overnight @ 4°C
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human lymph node stained with anti-HHEX using DAB

References:

- Overexpression of HHEX in Acute Myeloid Leukemia with t(8;21)(q22;q22) Translocation. Shuangfeng Zhang, et al. Ann Clin Lab Sci. Nov;47(6):687-697, 2017.
- The homeobox gene Hhex is essential for proper hepatoblast differentiation and bile duct morphogenesis. Michael P. Hunter, et al. Dev Biol. Aug 15; 308(2): 355–367, 2007.

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