RD SYSTEMS a biotechne brand

Human/Mouse/Rat HHEX Antibody

Recombinant Monoclonal Rabbit IgG Clone # 2018B Catalog Number: MAB83771

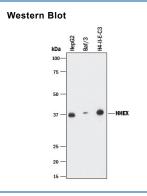
DESCRIPTION			
Species Reactivity	Human/Mouse/Rat		
Specificity	Detects human HHEX in direct ELISAs and Western blots.		
Source	Recombinant Monoclonal Rabbit IgG Clone # 2018B		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	<i>E. coli</i> -derived recombinant human HHEX Thr111-Gly270 Accession # Q03014		
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.		

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Flow Cytometry	0.25 µg/10 ⁶ cells	See Below
Immunocytochemistry	2-25 µg/mL	See Below

DATA



Immunocytochemistry

Detection of Human, Mouse, and Rat HHEX by Western Blot. Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line, BaF3 mouse pro-B cell line, and H4-II-E-C3 rat hepatoma cell line. PVDF membrane was probed with 1 µg/mL of Rabbit Anti-Human/Mouse/Rat HHEX Monoclonal Antibody (Catalog # MAB83771) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for HHEX at approximately 37 KDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

HHEX in K562 Human Cell Line, HHEX

Rabbit Anti-Human/Mouse/Rat HHEX

3 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-

Catalog # NL004) and counterstained with

DAPI (blue). Specific staining was localized

to nuclei. View our protocol for Fluorescent

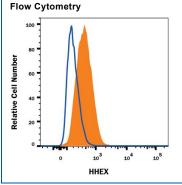
Rabbit IgG Secondary Antibody (red;

ICC Staining of Non-adherent Cells.

was detected in immersion fixed K562 human

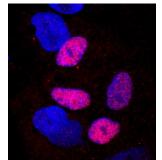
chronic myelogenous leukemia cell line using

Polyclonal Antibody (Catalog # MAB83771) at



Detection of HHEX in A549 Human Cell Line by Flow Cytometry. A549 human lung carcinoma cell line was stained with Rabbit Anti-Human/Mouse/Rat HHEX Monoclonal Antibody (Catalog # MAB83771, filled histogram) or isotype control antibody (Catalog # AB-105-C, open histogram), followed by Phycoerythrin-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # F0110). To facilitate intracellular staining, cells were fixed and permeabilization Buffer Kit (Catalog # FC012). View our protocol for Staining Intracellular Molecules.

Immunocytochemistry



HHEX in iBJ6 iPS Cell Line. HHEX was detected in immersion fixed iBJ6 iPS cell line differentiated into hepatocytes using Rabbit Antibudy (Catalog # MAB83771) at 2 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rabbit IgG Secondary Antibody (red; Catalog # NL004) and counterstained with DAPI (blue). Specific staining was localized to nuclei. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

PREPARATION AND STORAGE Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS. Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles. • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution.

• 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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BACKGROUND

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 (aa), 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. HHEX knockout in mice is embryonic lethal, with impaired forebrain, liver and thyroid development. Human HHEX is 270 aa in length, and over aa 111-270, shares 93% and 95% identity with mouse and rat HHEX, respectively.

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