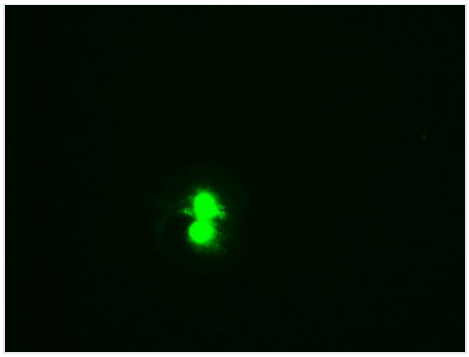
HHEX Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	HHEX, Monoclonal Antibody
Full Product Name	HHEX antibody
Product Gene Name	anti-HHEX antibody
Product Synonym Names	Monoclonal HHEX; Anti-HHEX; Hematopoietically expressed homeobox; PRH; HOX11L-PEN; HEX; HMPH
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	2H7 2c2
Host	Mouse
Form/Format	Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Purity/Purification	HHEX antibody was purified by affinity chromatography.
Concentration	500 ug-1 mg/ml (lot specific)
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.
Molecular Weight	30,022 Da
OMIM	604420
3D Structure	ModBase 3D Structure for Q03014
Cross-Reactivity	Human
Immunogen	HHEX antibody was raised in mouse using a recombinant fragment expressed in E Coli corresponding to amino acids 100-270 of human Hex as the immunogen.
Product Categories/Family for anti-HHEX antibody	DNA & RNA
Applications Tested/Suitable for anti-HHEX antibody	Immunofluorescence (IF), Western Blot (WB)
Application Notes for anti-HHEX antibody	IF: 1:100 WB: 12000
Related Product Information for anti-HHEX antibody	MBS533623 is an antibody targeting HHEX. Also known as HHEX antibody. Host: Mouse. Mouse monoclonal HHEX antibody
Other Notes	Small volumes of anti-HHEX antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Immunofluorescence of anti-HHEX antibody
Immunofluorescent staining using HHEX antibodyImmunofluorescent staining of COS7 cells transiently transfected with recombinant HHEX protein using HHEX antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HHEX. It may not necessarily be applicable to this product.

NCBI GI #	4506049
NCBI GeneID	3087
NCBI Accession #	NP_002720.1
UniProt Primary Accession #	Q03014
UniProt Secondary Accession #	Q96CE9; B1AQ17
UniProt Related Accession #	Q03014
GenBank Nucleotide #	NM_002729.4
NCBI Official Full Name	hematopoietically-expressed homeobox protein HHEX
NCBI Official Synonym Full Names	hematopoietically expressed homeobox
NCBI Official Symbol	HHEX
NCBI Official Synonym Symbols	HEX; PRH; HMPH; PRHX; HOX11L-PEN
UniProt Protein Name	Hematopoietically-expressed homeobox protein HHEX
UniProt Synonym Protein Names	Homeobox protein PRH
Protein Family	Hematopoietically-expressed homeobox protein
UniProt Gene Name	HHEX
UniProt Synonym Gene Names	HEX; PRH; PRHX; Homeobox protein HEX
UniProt Entry Name	HHEX_HUMAN
NCBI Protein Information	hematopoietically-expressed homeobox protein HHEX
NCBI Summary for HHEX	This gene encodes a member of the homeobox family of transcription factors, many of which are involved in developmental processes. Expression in specific hematopoietic lineages suggests that this protein may play a role in hematopoietic differentiation. [provided by RefSeq, Jul 2008]

UniProt Comments for HHEX	HHEX: Recognizes the DNA sequence 5'-ATTAA-3'. Transcriptional repressor. May play a role in hematopoietic differentiation. Establishes anterior identity at two levels; acts early to enhance canonical WNT-signaling by repressing expression of TLE4, and acts later to inhibit NODAL-signaling by directly targeting NODAL. Protein type: DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 10q23.33 Cellular Component: cytoplasm; nucleus Molecular Function: protein binding; protein homodimerization activity; sequence-specific DNA binding; TATA-binding protein binding; eukaryotic initiation factor 4E binding; chromatin binding; transcription factor binding; DNA bending activity Biological Process: response to peptide hormone stimulus; negative regulation of transcription from RNA polymerase II promoter; anterior/posterior pattern formation; poly(A)+ mRNA export from nucleus; pancreas development; response to wounding; thyroid gland development; cell differentiation; vasculogenesis; positive regulation of Wnt receptor signaling pathway; Wnt receptor signaling pathway; transcription, DNA-dependent; negative regulation of vascular endothelial growth factor receptor signaling pathway; in utero embryonic development; multicellular organism growth; negative regulation of cyclin-dependent protein kinase activity; forebrain morphogenesis; interkinetic nuclear migration; regulation of cell proliferation; cell proliferation; mRNA export from nucleus; negative regulation of angiogenesis; B cell differentiation; myeloid leukocyte differentiation; embryonic heart tube development; positive regulation of transcription from RNA polymerase II promoter; negative regulation of transcription, DNA-dependent; endoderm development
Research Articles on HHEX	**1.** PRH controls the migration of multiple epithelial cell lineages in part at least through the direct transcriptional regulation of Endoglin
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