HAX1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HAX1, Polyclonal Antibody
Full Product Name	HAX1, CT (HAX1, HS1BP1, HCLS1-associated protein X-1, HS1-associating protein X-1, HS1-binding protein 1) (MaxLight 650)
Product Gene Name	anti-HAX1 antibody
Product Synonym Names	HAX1; HS1BP1; HCLS1-associated protein X-1; HS1-associating protein X-1; HS1-binding protein 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	21,801 Da
OMIM	605998
3D Structure	ModBase 3D Structure for O00165
Immunogen	HAX1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 160-190 amino acids from the C-terminal region of human HAX1.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-HAX1 antibody	Antibodies; Binding Proteins
Applications Tested/Suitable for anti-HAX1 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-HAX1 antibody	IHC: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-HAX1 antibody	The protein encoded by this gene is known to associate with hematopoietic cell-specific Lyn substrate 1, a substrate of Src family tyrosine kinases. It also interacts with the product of the polycystic kidney disease 2 gene, mutations in which are associated with autosomal-dominant polycystic kidney disease, and with the F-actin-binding protein, cortactin. It was earlier thought that this gene product is mainly localized in the mitochondria, however, recent studies indicate it to be localized in the cell body. Mutations in this gene result in autosomal recessive severe congenital neutropenia, also known as Kostmann disease. Two transcript variants encoding different isoforms have been found for this gene.

Product References and Citations for anti-HAX1 antibody	Johns, H.L., et al. J. Gen. Virol. 91 (PT 11), 2677-2686 (2010): Mekkawy, A.H., et al. Biochem. Biophys. Res. Commun. 399(4):738-743(2010). Han, J., et al. J. Biol. Chem. 285(29):22461-22472(2010). Germeshausen, M., et al. Haematologica 95(7):1207-1210(2010). Burnicka-Turek, O., et al. BMC Cell Biol. 11, 28 (2010).
Other Notes	Small volumes of anti-HAX1 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.
Searchable Terms for HAX1 purchase	MBS6305567 is an antibody targeting HAX1. Also known as HAX1, CT (HAX1, HS1BP1, HCLS1-associated protein X-1, HS1-associating protein X-1, HS1-binding protein 1) (MaxLight 650). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HAX1. It may not necessarily be applicable to this product.

NCBI GI #	66363694
NCBI GeneID	10456
NCBI Accession #	NP_001018238.1
NCBI Related Accession #	NP_006109.2
UniProt Primary Accession #	O00165
UniProt Secondary Accession #	Q5VYD5; Q5VYD7; Q96AU4; Q9BS80; A8W4W9; A8W4X0; B4DUJ7
UniProt Related Accession #	O00165
GenBank Nucleotide #	NM_001018837.1
NCBI Official Full Name	HCLS1-associated protein X-1 isoform b
NCBI Official Synonym Full Names	HCLS1 associated protein X-1
NCBI Official Symbol	HAX1
NCBI Official Synonym Symbols	SCN3; HS1BP1; HCLSBP1
UniProt Protein Name	HCLS1-associated protein X-1
UniProt Synonym Protein Names	HS1-associating protein X-1; HAX-1; HS1-binding protein 1; HSP1BP-1
Protein Family	HCLS1-associated protein
UniProt Gene Name	HAX1
UniProt Synonym Gene Names	HS1BP1; HAX-1; HSP1BP-1
UniProt Entry Name	HAX1_HUMAN
NCBI Protein Information	HCLS1-associated protein X-1; HAX-1; HCLS1 (and PKD2) associated protein; HS1 binding protein; HS1-associating protein X-1; HS1-binding protein 1; HSP1BP-1

UniProt Comments for HAX1	HAX1: Promotes cell survival. Potentiates GNA13-mediated cell migration. Involved in the clathrin-mediated endocytosis pathway. May be involved in internalization of ABC transporters such as ABCB11. May inhibit CASP9 and CASP3. May regulate intracellular calcium pools. Defects in HAX1 are the cause of neutropenia severe congenital autosomal recessive type 3 (SCN3); also known as Kostmann disease. A disorder of hematopoiesis characterized by maturation arrest of granulopoiesis at the level of promyelocytes with peripheral blood absolute neutrophil counts below 0.5 x 10(9)/l and early onset of severe bacterial infections. Some patients affected by severe congenital neutropenia type 3 have neurological manifestations such as psychomotor retardation and seizures. The clinical phenotype due to HAX1 deficiency appears to depend on the localization of the mutations and their influence on the transcript variants. Mutations affecting exclusively isoform 1 are associated with isolated congenital neutropenia, whereas mutations affecting both isoform 1 and isoform 5 are associated with additional neurologic symptoms. Belongs to the HAX1 family. 6 isoforms of the human protein are produced by alternative splicing. Protein type: Endoplasmic reticulum; Mitochondrial; Apoptosis; Vesicle Chromosomal Location of Human Ortholog: 1q21.3 Cellular Component: transcription factor complex; nuclear membrane; clathrin-coated vesicle; mitochondrion; sarcoplasmic reticulum; endoplasmic reticulum; lamellipodium; apical plasma membrane; nuclear envelope; actin cytoskeleton Molecular Function: protein domain specific binding; protein binding; protein N-terminus binding; interleukin-1 binding Biological Process: positive regulation of phosphoinositide 3-kinase cascade; regulation of apoptosis; positive regulation of protein kinase B signaling cascade; positive regulation of peptidyl-tyrosine phosphorylation; regulation of actin filament polymerization; positive regulation of granulocyte differentiation; positive regulation of transcription from RNA polymerase II promoter; positive regulation of peptidyl-serine phosphorylation Disease: Neutropenia, Severe Congenital, 3, Autosomal Recessive
Research Articles on HAX1	**1.** HAX1 mutation is associated with severe congenital neutropenia.
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