HRK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Hrk, Polyclonal Antibody
Full Product Name	Hrk (Activator of Apoptosis Harakiri, BH3-interacting Domain Containing Protein 3, BID3, DP5, Harakiri BCL2 Interacting Protein (Contains Only BH3 Domain), Neuronal Death Protein DP5) (APC)
Product Gene Name	anti-Hrk antibody
Product Synonym Names	Activator of Apoptosis Hrk; Human Brain 3UTR of mRNA for Neuronal Death Protein Partial Sequence
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by affinity chromatography.
Specificity	Recognizes human Harakiri (HRK), also known as DP5. HRK is a BH3 only protein of the Bcl-2 family, which promotes Bax dependent apoptosis. Species Crossreactivity: mouse and rat.
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: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	9,884 Da
OMIM	603447
3D Structure	ModBase 3D Structure for O00198
Immunogen	Synthetic peptide corresponding to 15aa near the center of human HRK (NP_003797).
Conjugate	APC
Note	Preservative Free
Product Categories/Family for anti-Hrk antibody	Antibodies; Apoptosis
Applications Tested/Suitable for anti-Hrk antibody	Western Blot (WB)
Application Notes for anti-Hrk antibody	WB: 2-5ug/ml. Detects a band at ~13kD in mouse pancreas tissue lysate. Applications are based on unconjugated antibody.
Related Product Information for anti-Hrk antibody	MBS6481152 is an antibody targeting Hrk. Also known as Hrk (Activator of Apoptosis Harakiri, BH3-interacting Domain Containing Protein 3, BID3, DP5, Harakiri BCL2 Interacting Protein (Contains Only BH3 Domain), Neuronal Death Protein DP5) (APC). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-Hrk antibody	1. Nakamura M. et al. (2005). Frequent HRK inactivation associated with low apoptotic index in secondary glioblastomas. Acta Neuropathol (Berl). 110: 402-410. 2. Sanz, C. et al. (2001). Interleukin 3-dependent activation of DREAM is involved in transcriptional silencing of the apoptotic Hrk gene in hematopoietic progenitor cells. EMBO J. 20: 2286-2292. 3. Sunayama, J. et al. (2004). Physical and functional interaction between BH3-only protein Hrk and mitochondrial pore-forming protein p32. Cell Death Differ. 11: 771-781.

Other Notes	Small volumes of anti-Hrk 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.

ADDITIONAL DETAILS

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

NCBI GI #	4504493
NCBI GeneID	8739
NCBI Accession #	NP_003797
UniProt Primary Accession #	O00198
UniProt Related Accession #	O00198
GenBank Nucleotide #	NM_003806.2
NCBI Official Full Name	activator of apoptosis harakiri
NCBI Official Synonym Full Names	harakiri, BCL2 interacting protein
NCBI Official Symbol	HRK
NCBI Official Synonym Symbols	DP5; HARAKIRI
UniProt Protein Name	Activator of apoptosis harakiri
UniProt Synonym Protein Names	BH3-interacting domain-containing protein 3; Neuronal death protein DP5
Protein Family	Activator of apoptosis harakiri
UniProt Gene Name	HRK
UniProt Synonym Gene Names	BID3
UniProt Entry Name	HRK_HUMAN
NCBI Protein Information	activator of apoptosis harakiri; death protein 5; BCL2-interacting protein; activator of apoptosis Hrk; neuronal death protein DP5; BH3-interacting domain-containing protein 3; harakiri, BCL2 interacting protein (contains only BH3 domain)
NCBI Summary for Hrk	This gene encodes a member of the BCL-2 protein family. Members of this family are involved in activating or inhibiting apoptosis. The encoded protein localizes to intracellular membranes. This protein promotes apoptosis by interacting with the apoptotic inhibitors BCL-2 and BCL-X(L) via its BH3 domain. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Oct 2012]
UniProt Comments for Hrk	HRK: Promotes apoptosis. Protein type: Membrane protein, integral; Apoptosis Chromosomal Location of Human Ortholog: 12q24.22 Cellular Component: mitochondrion; integral to membrane Molecular Function: protein binding Biological Process: apoptosis; positive regulation of apoptosis; positive regulation of protein homooligomerization
Research Articles on Hrk	**1.** our findings suggest that induction of the BH3-only protein Hrk is a critical step in 2-ME activation of the JNK-induced apoptotic pathway, targeting mitochondria by liberating proapoptotic protein Bak.

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