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Hrk Antibody

Catalog # ASC10408

Product Information

Application	WB, E
Primary Accession	O00198
Other Accession	NP_003797, 4504493
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	9884
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	Hrk antibody can be used for the detection of Hrk by Western blot at 2.5 - 5 g/mL.

Additional Information

Gene ID	8739
Other Names	Hrk Antibody: DP5, HARAKIRI, BID3, Activator of apoptosis harakiri, BH3-interacting domain-containing protein 3, harakiri, BCL2 interacting protein (contains only BH3 domain)
Target/Specificity	HRK;
Reconstitution & Storage	Hrk antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	Hrk Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	HRK
Synonyms	BID3
Function	Promotes apoptosis.
Cellular Location	Membrane; Single-pass membrane protein. Mitochondrion

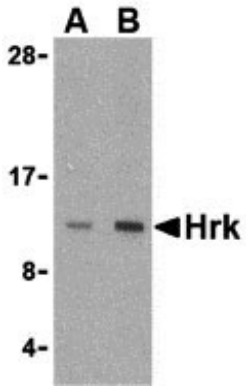
Background

Hrk Antibody: Apoptosis plays a major role in normal organism development, tissue homeostasis, and removal of damaged cells. Hrk, a pro-apoptotic member of the Bcl-2 homology domain-3 (BH3)-only group of the Bcl-2 family of proteins, was also identified as novel protein induced during programmed neuronal death. It lacks significant homology to other Bcl-2 family members except for an 8-amino acid region that is similar to the BH3 motif of Bik. Hrk regulates apoptosis through interaction with the anti-apoptotic proteins Bcl-2 and Bcl-XL via this domain. It does not interact with the pro-apoptotic proteins Bax, Bak, or Bcl-XS. Hrk localizes to mitochondrial membranes in a pattern similar to that previously reported for Bcl-2 and Bcl-XL.

References

Lockshin RA, Osborne B, and Zakeri Z. Cell death in the third millennium. Cell Death Differ. 2000; 7:2-7.
Imaizumi K, Tsuda M, Imai Y, et al. Molecular cloning of a novel polypeptide, DP5, induced during programmed neuronal death. J. Biol. Chem. 1997; 272:18842-8.
Inohara N, Ding L, Chen S, et al. harakiri, a novel regulator of cell death, encodes a protein that activates apoptosis and interacts selectively with survival-promoting proteins Bcl-2 and Bcl-XL. EMBO J. 1997; 16:1686-94.

Images



Western blot analysis of Hrk in mouse pancreas tissue lysate with Hrk antibody at (A) 2.5 and (B) 5 µg/mL.