
anti-Hrk

Cat #: HM1177
Goat polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

APPLICATIONS

Hrk is a proapoptotic member of the Bcl-2 family that is preferentially expressed in spleen and bone marrow. It contains an 8-amino acid region that was similar to the BCL2 homology domain-3 (BH3) motif of BIK. Hrk interacts with Bcl2 and Bcl-XL via the BH3 domain, but not with the death-promoting Bcl2-related proteins Bax, Bak, or Bcl-XS. Therefore, Hrk regulates apoptosis through interaction with death-repressor proteins Bcl-2 and Bcl-X(L). Hrk localizes to membranes of intracellular organelles in a pattern similar to that BCL2 and BCLXL.

SPECIFICITY

This antibody reacts with Hrk of mouse, rat and human origin.

The antibody can be used in Western blotting, immunoprecipitation and immunohistochemistry.

IMMUNOGEN

A recombinant protein corresponding to full length human Hrk.

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCE

1. Sanz C, Benito A, Inohara N, Ekhterae D, Nunez G, Fernandez-Luna JL. Specific and rapid induction of the proapoptotic protein Hrk after growth factor withdrawal in hematopoietic progenitor cells. *Blood*. 2000;95:2742-7.
2. Sanz C, Mellstrom B, Link WA, Naranjo JR, Fernandez-Luna JL. Interleukin 3-dependent activation of DREAM is involved in transcriptional silencing of the apoptotic Hrk gene in hematopoietic progenitor cells. *EMBO J*. 2001;20:2286-92.
3. Inohara, N., Ding, L., Chen, S., and Nunez, G. 1997. harakiri, a novel regulator of cell death, encodes a protein that activates apoptosis and interacts selectively with survival-promoting proteins Bcl-2 and Bcl-x(l). *EMBO J*. 16: 1686-1694.
4. Sato, T., Hanada, M., Bodrug, S., Irie, S., Iwama, N., Boise, L.H., Thompson, C.B., Golemis, E., Fong, L., Wang, H.-G., and Reed, J.C. 1994. Interactions among members of the Bcl-2 protein family analyzed with a yeast two-hybrid system. *Proc. Natl. Acad. Sci. USA* 91: 9238-9242.

5. Wakabayashi, T., Kosaka, J. and Hommura, S. (2002) Up-regulation of Hrk, a regulator of cell death, in retinal ganglion cells of axotomized rat retina. *Neurosci. Lett.* 318, 77-80.

PRODUCTS FROM HYPROMATRIX, INC.**A. AntibodyArray™s:**

1. Signal Transduction AntibodyArray™
Catalog Number HM3000
2. Apoptosis AntibodyArray™
Catalog Number HM4000
3. Cell Cycle AntibodyArray™
Catalog Number HM5000

B. Staining AntibodyArray™s

1. Staining AntibodyArray™ I
Catalog Number HM8100
2. AntibodyArray Staining Apparatus
Catalog Number HM8000

C. Antibodies**1. HRP-conjugated antibodies**

- anti-phosphotyrosine
Catalog Number HM2040
- anti-phosphoserine
Catalog Number HM2070
- anti-phosphothreonine
Catalog Number HM2090

and more...

2. Primary antibodies

Hypromatrix offers a variety of high quality antibodies. For a complete list of antibodies and their specificities, please visit our web site at www.hypromatrix.com.

CONTACT**Hypromatrix, Inc.**

100 Barber Avenue
Worcester, MA 01606
USA

Tel: 508-856-7900

Fax: 508-302-0748

Email: contact@hypromatrix.com

Web: www.hypromatrix.com