

---

**Anti-Nip3**

Cat #: HM1252  
Goat polyclonal IgG  
0.2 µg/µl, store at 4 °C

For research use only

**BACKGROUND**

Nip3 is a member of the BCL2/adenovirus E1B 19 kd-interacting protein (BNIP) family. Other members of this family include Nip1, Nip2 and Nix. The adenovirus E1B19 kDa protein is a viral homolog of the Bcl-2 family of proteins that are involved in regulating cell death. Nip3 contains a BH3 domain and a transmembrane domain, which have been associated with pro-apoptotic function. Nip3 preferentially binds to Bcl-xL and induces apoptosis by suppressing the anti-apoptosis activity of Bcl-xL.

**SPECIFICITY**

This antibody specifically reacts with Nip3 of human, mouse and rat origin.

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

**IMMUNOGEN**

Full-length recombinant protein corresponding to human Nip3 protein.

**STORAGE**

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

**REFERENCES**

1. Boyd, J.M., Malstrom, S., Subramanian, T., Venkatesh, L.K., Schaeper, U., Elangovan, B., D'Sa-Eipper, C., and Chinnadurai, G. 1994. Adenovirus E1B 19 kDa and Bcl-2 proteins interact with a common set of cellular proteins. *Cell* 79: 341-351.
2. Zhang, H., Heim, J., and Meyhack, B. 1999. Novel BNIP1 variants and their interaction with BCL2 family members. *FEBS Letts.* 448: 23-27.
3. Chen, G., Cizeau, J., Vande Velde, C., Park, J.H., Bozek, G., Bolton, J., Shi, L., Dubik, D., and Greenberg, A. 1999. Nix and Nip3 form a subfamily of pro-apoptotic mitochondrial proteins. *J. Biol. Chem.* 274: 7-10.
4. Chen, G., Ray, R., Dubik, D., Shi, L., Cizeau, J., Bleackley, R.C., Saxena, S., Gietz, R.D., and Greenberg, A.H. 1997. The E1B 19K/Bcl-2-binding protein Nip3 is a dimeric mitochondrial protein that activates apoptosis. *J. Exp. Med.* 186: 1975-1983.
5. Yasuda, M., Theodorakis, P., Subramanian, T., and Chinnadurai, G. (1998) Adenovirus E1B-19K/BCL-2 interacting protein BNIP3 contains a BH3 domain and a mitochondrial targeting sequence. *J. Biol. Chem.* 273, 12415-12421.

6. Ray, R., Chen, G., Vande Velde, C., Cizeau, J., Park, J.H., Reed, J.C., Gietz, R.D. and Greenberg, A.H. (2000) BNIP3 heterodimerizes with Bcl-2/Bcl-X(L) and induces cell death independent of a Bcl-2 homology 3 (BH3) domain at both mitochondrial and nonmitochondrial sites. *J. Biol. Chem.* 275, 1439-1448.
7. Kothari, S., Cizeau, J., McMillan-Ward, E., Israels, S.J., Bailes, M., Ens, K., Kirshenbaum, L.A. and Gibson, S.B. (2003) BNIP3 plays a role in hypoxic cell death in human epithelial cells that is inhibited by growth factors EGF and IGF. *Oncogene* 22, 4734-4744.

**PRODUCT 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](http://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](mailto:contact@hypromatrix.com)  
Web: [www.hypromatrix.com](http://www.hypromatrix.com)