

---

**anti-Vav**

Cat #: HM1390  
Rabbit polyclonal IgG  
0.2 µg/µl, store at 4 °C

For research use only

**BACKGROUND**

p95 vav is a proto-oncogene expressed in hematopoietic cells, playing a role in T-cell and B-cell development and activation. It contains a series of structural motifs found in intracellular signaling molecules: Within its amino terminus there are a helix-loop-helix domain and a leucine zipper motif similar to that of Myc family proteins. In addition, vav contains an SH2 domain, indicating its role as a substrate for tyrosine kinases. Vav is tyrosine phosphorylated upon activation of hematopoietic cells through their surface receptors, such as the B cell IgM receptor complex or the T cell receptor-CD4 complex. Vav is also phosphorylated on serine and threonine. It was shown that p70 Ku interacts with amino acids 813-837 of p95vav, part of the carboxyl-terminal Src homology 3 (SH3) domain.

**SPECIFICITY**

This antibody reacts with mouse, rat and human Vav. It can be used in Western blotting, immunoprecipitation and immunohistochemistry.

Molecular weight of vav: 95 kDa.

**IMMUNOGEN**

A recombinant protein corresponding to the C terminal domain of human Vav p95.

**STORAGE**

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

**REFERENCES**

1. Katzav,S., Martin-Zanca,D. and Barbacid,M.(1989) vav, a novel human oncogene derived from a locus ubiquitously expressed in hematopoietic cells. EMBO J. 8, 2283-2290.
2. Margolis, B., Hu, P., Katzav, S., Li, W., Oliver, J.M., Ullrich, A., Weiss, A., and Schlessinger, J. 1992. Tyrosine phosphorylation of vav proto-oncogene product containing SH2 domain and transcription factor motifs. Nature 356: 71-74.
3. Katzav, S., Martin-Zanca, D., and Barbacid, M. 1989. vav, a novel human oncogene derived from a locus ubiquitously expressed in hematopoietic cells. EMBO J. 8: 2283-2290.
4. Bustelo, X.R. and Barbacid, M. 1992. Tyrosine phosphorylation of the vav proto-oncogene product in activated B cells. Science 256: 1196-1199.
5. Bustelo, X.R., Ledbetter, J.A., and Barbacid, M. 1992. Product of vav proto-oncogene defines a new class of tyrosine protein kinase substrates. Nature 356: 68-71.
6. Deckert,M., Tartare-Deckert,S., Couture,C., Mustelin,T. and Altman,A. (1996) Functional and physical interactions of Syk family kinases with the Vav proto-oncogene product. Immunity 5, 591-604.

7. Das,B., Shu,X., Day,G.J., Han,J., Krishna,U.M., Falck,J.R. and Broek,D.(2000) Control of intramolecular interactions between the pleckstrin homology and Dbl homology domains of Vav and Sos1 regulates Rac binding. J. Biol. Chem. 275, 15074-15081.
8. Stebbins,C.C., Watzl,C., Billadeau,D.D., Leibson,P.J., Burshtyn,D.N. and Long,E.O. (2003) Vav1 dephosphorylation by the tyrosine phosphatase SHP-1 as a mechanism for inhibition of cellular cytotoxicity. Mol. Cell. Biol. 23, 6291-6299.

**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](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)