

#2153 Store at -20°C

Vav1 (R775) Antibody

100 µl
 (10 western blots)



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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

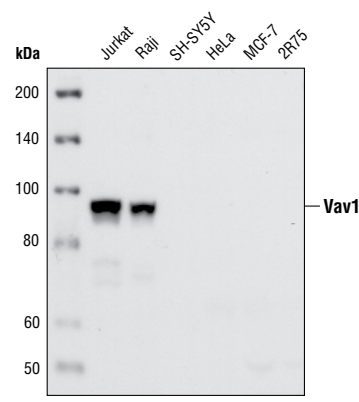
Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W, IP Endogenous	H	95 kDa	Rabbit**

Background: Vav proteins belong to the Dbl family of guanine nucleotide exchange factors (GEFs) for Rho/Rac small GTPases. Three mammalian members Vav1, Vav2 and Vav3, have been identified. Vav1 is expressed only in hematopoietic cells and is involved in the formation of the immune synapse. Vav2 and Vav3 are more ubiquitously expressed. In addition to the Dbl homology (DH) domain, which confers GEF activity, Vavs contain protein interaction domains that allow them to function in various pathways regulating organization of the actin cytoskeleton (reviewed in 1). Phosphorylation stimulates the GEF activity of Vav protein towards Rho/Rac (2,3).

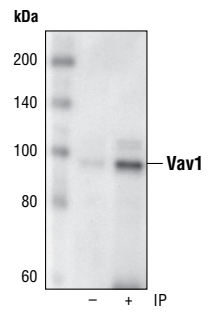
Specificity/Sensitivity: Vav1 (R775) Antibody detects endogenous levels of total Vav1 protein. The antibody does not cross-react with Vav2 or Vav3.

Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide (KLH-coupled) corresponding the carboxy terminus of human Vav1. Antibodies are purified by protein A and peptide affinity chromatography.

- Background References:**
- (1) Hornstein, I. et al. (2004) *Cell. Signal.* 16, 1–11.
 - (2) Crespo, P. et al. (1997) *Nature* 385, 169–172.
 - (3) Han, J. et al. (1997) *Mol. Cell. Biol.* 17, 1346–1353.



Western blot analysis of extracts from various cell types, using Vav1 (R775) Antibody.



Immunoprecipitation of Vav1 from Jurkat cell lysates, using Vav1 (R775) Antibody. Western blot was performed using the same antibody.

Entrez-Gene ID # 7409
Swiss-Prot Acc. # P15498

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

***Species cross-reactivity is determined by Western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting	1:1000
Immunoprecipitation	1:40

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

IMPORTANT: For Western blots, incubate membrane with diluted antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

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Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine
 Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.