

Vav1 Antibody

✓ 100 µl
(10 western blots)

rev. 1/19/10

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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.

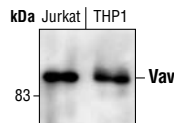
Entrez-Gene ID #7409
Swiss-Prot Acc. #P15498

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

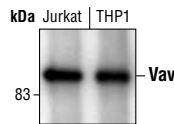
Background: Vav proteins belong to the Dbl family of guanine nucleotide exchange factors (GEFs) for Rho/Rac small GTPases. The three identified mammalian Vav proteins (Vav1, Vav2 and Vav3) differ in their expression. Vav1 is expressed only in hematopoietic cells and is involved in the formation of the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

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

Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide (KLH-coupled) corresponding to residues surrounding Tyr174 of human Vav. Antibodies are purified by protein A and peptide affinity chromatography.



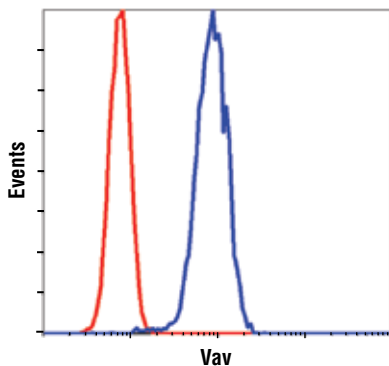
Western blot analysis of extracts from Jurkat and THP1 cells using Vav1 Antibody.



Immunoprecipitation of Jurkat and THP1 cell extracts using Vav1 Antibody, followed by Western blot analysis using the same antibody.

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.



Flow cytometric analysis of untreated Jurkat cells using Vav1 antibody (blue) compared to a nonspecific negative control antibody (red).

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

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.

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	1:50
Flow Cytometry	1:25

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.