

#2502 Store at -20°C

Vav1 Antibody


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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, W-S, FC-FP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 95	Source: Rabbit	UniProt ID: #P15498	Entrez-Gene Id: 7409
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Product Usage Information	Application Western Blotting Simple Western™ Flow Cytometry (Fixed/Permeabilized)	Dilution 1:1000 1:10 - 1:50 1:25
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.	
Specificity / Sensitivity	Vav Antibody detects endogenous levels of total Vav1 protein. The antibody does not cross-react with Vav2, Vav3 or CelVav.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Tyr174 of human Vav. Antibodies are purified by protein A and peptide affinity chromatography.	
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).	
Background References	1. Hornstein, I. et al. (2004) <i>Cell. Signal.</i> 16, 1-11. 2. Crespo, P. et al. (1997) <i>Nature</i> 385, 169-172. 3. Han, J. et al. (1997) <i>Mol. Cell. Biol.</i> 17, 1346-1353.	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting W-S: Simple Western™ FC-FP: Flow Cytometry (Fixed/Permeabilized)
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus 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 GP: Guinea Pig Rab: rabbit All: all species expected
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