

# Vav1 Antibody



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<b>Applications:</b> W, W-S, FC-FP	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 95	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #P15498	<b>Entrez-Gene Id:</b> 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

- Hornstein, I. et al. (2004) *Cell. Signal.* 16, 1-11.
- Crespo, P. et al. (1997) *Nature* 385, 169-172.
- Han, J. et al. (1997) *Mol. Cell. Biol.* 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

**W:** Western Blotting **W-S:** Simple Western™ **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

## Cross-Reactivity Key

**H:** Human **M:** Mouse **R:** Rat

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