

## Product datasheet for **AP20506PU-S**

### VAV2 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Western blot:</b> 1/500 - 1/1000. <b>Immunohistochemistry on paraffin sections:</b> 1/50 - 1/200. <b>Immunofluorescence:</b> 1/50 - 1/200.
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of VAV2 protein. (region surrounding Asp138)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 15mM sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography (> 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 108 kDa
Gene Name:	vav guanine nucleotide exchange factor 2
Database Link:	<a href="#">Entrez Gene 22325 Mouse</a> <a href="#">Entrez Gene 7410 Human</a> <a href="#">P52735</a>



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**Background:**

VAV2 is a ubiquitously expressed structural homolog of the VAV protooncogene that is expressed preferentially in hematopoietic cells. Both proteins are comprised of a Dbl homology (DH) domain with guanosine nucleotide exchange (GEF) activity exclusively directed towards Rho/Rac GTPases, a pleckstrin homology (PH) domain, a calponin-homology (CH) region, an acidic domain (AD) a zinc finger butterfly motif, two SH3 regions and one SH2 domain. GEF activity of RhoA family G proteins is induced by tyrosine phosphorylation in wild type VAV2, and is constitutively activated in N terminus deleted oncogene forms. Constitutive expression of a VAV2 oncoprotein may result in morphological alterations including highly enlarged cells in which karyokinesis and cytokinesis frequently are uncoupled.

**Synonyms:**

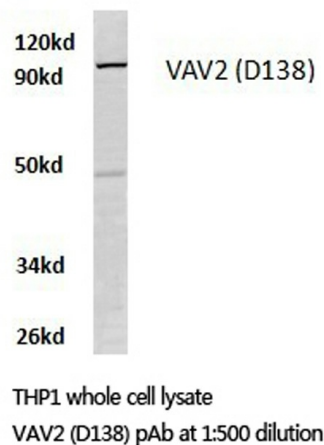
VAV-2

**Protein Families:**

Druggable Genome

**Protein Pathways:**

B cell receptor signaling pathway, Chemokine signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, Leukocyte transendothelial migration, Natural killer cell mediated cytotoxicity, Regulation of actin cytoskeleton, T cell receptor signaling pathway

**Product images:**

Western blot (WB) analysis of VAV2 antibody (Cat.-No.: [AP20506PU-N]) in extracts from THP1 cells.