

## Product datasheet for **AP05064PU-N**

### VAV2 (DPH Region) Sheep Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IP, WB
Recommended Dilution:	<b>Western Blot:</b> 1/5,000. <b>Immunoprecipitation</b> (Empirical).
Reactivity:	Human
Host:	Sheep
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A his tagged fusion protein Vav-2 corresponding to amino acid sequence 287-578 and having a Molecular Weight of 100kD
Specificity:	This antibody reacts to Vav-2 DPH.
Formulation:	PBS with 0.08% Sodium Azide as preservative State: Purified State: Liquid (0.2 µm sterile filtered) purified Ig fraction
Concentration:	lot specific
Purification:	Ammonium Sulfate Precipitation
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	vav guanine nucleotide exchange factor 2
Database Link:	<a href="#">Entrez Gene 7410 Human P52735</a>



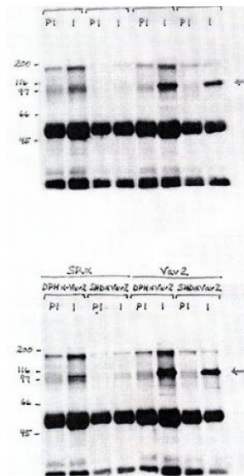
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**Background:**

Vav-2 has a molecular weight of 100 kD and shares over a 50% homology at the amino acid and nucleic acid level with Vav. Vav-2 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 vav-2, and is constitutively activated in N terminus deleted oncogene forms. Constitutive expression of a Vav-2 oncoprotein may result in morphological alterations including highly enlarged cells in which karyokinesis and cytokinesis frequently are uncoupled.

**Synonyms:**

VAV-2

**Product images:**


HEK293 cells were transfected with either empty expression vector (pSR<sub>-</sub>) or pSRa-Vav2 driving expression of human Vav2. Indicated antibodies (SHD or DPH) were used to immunoprecipitate Vav2 from 300ug protein lysates.

Immunoprecipitated activity was identified by immunoblot of complexes using either DPH (upper gel) or SHD (lower gel) antisera at (1:10000). Immunoprecipitation of Endogenous/Exogenous Vav2 from HEK 283 (75 ug lysate per lane). Top gel - i.p. Ab: DPH or SHD preimmune serum (2.5 µl/300ug lysate). DPH or SHD alpha Vav2 antiserum (2.5 µl/300ug lysate). Western Blot Ab: DPH anti Vav2 1:10000. Bottom Gel - i.p. Ab DPH or SHD preimmune sera (2.5 µl/300ug lysate). DPH or SHD anti Vav2 antisera (2.5µl/300ug lysate). Western blot Ab - SHD anti Vav2 antibody 1:10000.