

**phospho-Integrin alpha 4 (Ser1027) Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP56358****Specification****phospho-Integrin alpha 4 (Ser1027) Polyclonal Antibody - Product Information**

Application	WB, IHC-F, IF, ICC
Primary Accession	<a href="#">P13612</a>
Reactivity	Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	114900

**phospho-Integrin alpha 4 (Ser1027) Polyclonal Antibody - Additional Information****Gene ID** 3676**Other Names**

Integrin alpha-4, CD49 antigen-like family member D, Integrin alpha-IV, VLA-4 subunit alpha, CD49d, ITGA4, CD49D

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**phospho-Integrin alpha 4 (Ser1027) Polyclonal Antibody - Protein Information****Name** ITGA4**Synonyms** CD49D**Function**

Integrins alpha-4/beta-1 (VLA-4) and alpha-4/beta-7 are receptors for fibronectin. They recognize one or more domains within the alternatively spliced CS-1 and CS-5 regions of fibronectin. They are also receptors for VCAM1. Integrin alpha-4/beta-1 recognizes the sequence Q-I-D-S in VCAM1. Integrin alpha-4/beta-7 is also a receptor for MADCAM1. It recognizes the sequence L-D-T in MADCAM1. On activated endothelial cells integrin VLA-4 triggers homotypic aggregation for most VLA-4-positive leukocyte cell lines. It may also participate in cytolytic T-cell interactions with target cells. ITGA4:ITGB1 binds to fractalkine (CX3CL1) and may act as its coreceptor in CX3CR1-dependent fractalkine signaling (PubMed:<a href="http://www.uniprot.org/citations/23125415" target="\_blank">23125415</a>). ITGA4:ITGB1 binds to PLA2G2A via a site (site 2) which is distinct from the classical ligand-binding site (site 1) and this induces integrin conformational changes and enhanced ligand binding to site 1 (PubMed:<a href="http://www.uniprot.org/citations/18635536" target="\_blank">18635536</a>, PubMed:<a href="http://www.uniprot.org/citations/25398877" target="\_blank">25398877</a>).

Integrin ITGA4:ITGB1 represses PRKCA-mediated L-type voltage-gated channel  $\text{Ca}^{2+}$  influx and ROCK-mediated calcium sensitivity in vascular smooth muscle cells via its interaction with SVEP1, thereby inhibiting vasocontraction (PubMed:<a href="http://www.uniprot.org/citations/35802072" target="\_blank">35802072</a>).

**Cellular Location**

Membrane; Single-pass type I membrane protein

**Tissue Location**

Expressed in vascular smooth muscle cells (at protein level).

**phospho-Integrin alpha 4 (Ser1027) Polyclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**phospho-Integrin alpha 4 (Ser1027) Polyclonal Antibody - Images**