

**Integrin  $\alpha$ 4 (phospho Ser1027) Polyclonal Antibody**  
**Catalog # AP68087****Specification****Integrin  $\alpha$ 4 (phospho Ser1027) Polyclonal Antibody - Product Information**

Application	IHC
Primary Accession	<a href="#">P13612</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal

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

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

**Dilution**

IHC~~Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications.

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**Integrin  $\alpha$ 4 (phospho 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 Ca(2+) influx and ROCK-mediated calcium sensitivity in vascular smooth muscle cells via its interaction with SVEP1, thereby inhibiting vasoconstriction (PubMed:<a href="http://www.uniprot.org/citations/35802072" target="\_blank">35802072</a>).

#### Cellular Location

Membrane; Single-pass type I membrane protein

#### Tissue Location

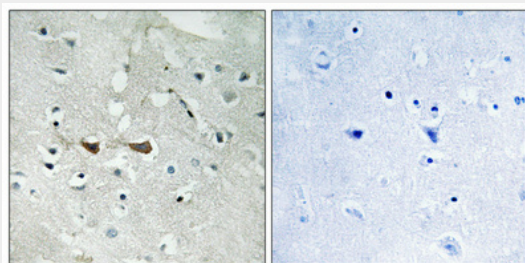
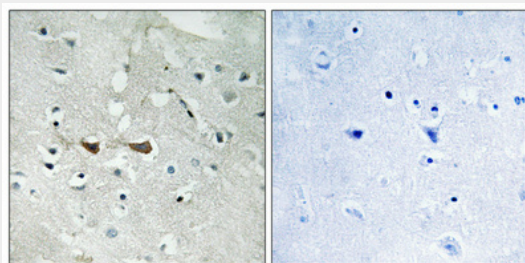
Expressed in vascular smooth muscle cells (at protein level).

### Integrin $\alpha 4$ (phospho 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](#)

### Integrin $\alpha 4$ (phospho Ser1027) Polyclonal Antibody - Images



### Integrin $\alpha 4$ (phospho Ser1027) Polyclonal Antibody - Background

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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:23125415). 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:18635536, PubMed:25398877).