

phospho-Integrin alpha 4 (Ser1027) Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP56358

Product Information

Application	WB, IHC-F, IF, ICC
Primary Accession	P13612
Reactivity	Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	114900

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
Dilution	WB=1:500-2000, Elisa=1:500-1000, IHC-F=1:100-500, IF=1:100-500, ICC=1:100-500,
Format	0.01M TBS(pH7.4) with 1% BSA, 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.

Protein Information

Name	ITGA4
Synonyms	CD49D
Function	<p>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.</p> <p>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,</p>

PubMed:[25398877](#)). 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 vasocontraction (PubMed:[35802072](#)).

Cellular Location

Membrane; Single-pass type I membrane protein

Tissue Location

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

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