

phospho-Integrin alpha 4 (Ser1027) Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP56358

Product Information

Application WB, IHC-F, IF, ICC

Primary Accession
Reactivity
Pig, Bovine
Host
Clonality
Polyclonal
Calculated MW
P13612
Pig, Bovine
Rabbit
Polyclonal

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=1:100-50

0,

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 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: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:<u>25398877</u>). 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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