

Integrin alpha 4 Rabbit mAb
Catalog # AP77597**Specification**

Integrin alpha 4 Rabbit mAb - Product Information

Application	WB
Primary Accession	P13612
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	114900

Integrin alpha 4 Rabbit mAb - Additional Information**Gene ID** 3676**Other Names**
ITGA4**Dilution**
WB~~1/500-1/1000**Format**
Liquid**Integrin alpha 4 Rabbit mAb - 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: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).

target="_blank">35802072).

Cellular Location

Membrane; Single-pass type I membrane protein

Tissue Location

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

Integrin alpha 4 Rabbit mAb - 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 Rabbit mAb - Images