

**Anti-Integrin α 4 / ITGA4 / CD49d Reference Antibody (natalizumab)
Recombinant Antibody
Catalog # APR10298****Specification****Anti-Integrin α 4 / ITGA4 / CD49d Reference Antibody (natalizumab) - Product Information**

Application	FC, Kinetics, Animal Model
Primary Accession	P13612
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG4
Calculated MW	146.22 KDa

Anti-Integrin α 4 / ITGA4 / CD49d Reference Antibody (natalizumab) - Additional Information**Target/Specificity**Integrin α 4 / ITGA4 / CD49d**Endotoxin**< 0.001EU/ μ g,determined by LAL method.**Conjugation**

Unconjugated

Expression system

CHO Cell

Format

Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.

Anti-Integrin α 4 / ITGA4 / CD49d Reference Antibody (natalizumab) - Protein Information**Name** ITGA4**Synonyms** CD49D**Function**

Integrins α -4/ β -1 (VLA-4) and α -4/ β -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 α -4/ β -1 recognizes the sequence Q-I-D-S in VCAM1. Integrin α -4/ β -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).

Cellular Location

Membrane; Single-pass type I membrane protein

Tissue Location

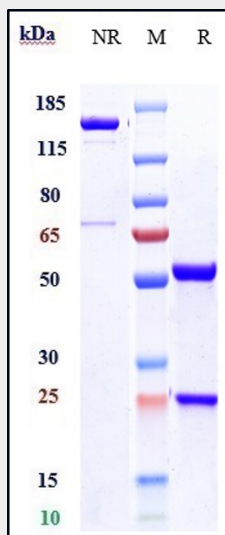
Expressed in vascular smooth muscle cells (at protein level).

Anti-Integrin a4 / ITGA4 / CD49d Reference Antibody (natalizumab) - Protocols

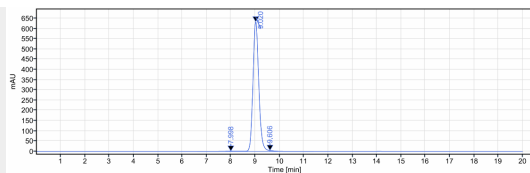
Provided below are standard protocols that you may find useful for product applications.

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

Anti-Integrin a4 / ITGA4 / CD49d Reference Antibody (natalizumab) - Images



Anti-Integrin a4 / ITGA4 / CD49d Reference Antibody (natalizumab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%



The purity of Anti-Integrin $\alpha 4$ / ITGA4 / CD49d Reference Antibody (natalizumab) is more than 98.72 %, determined by SEC-HPLC.