

## Anti-ITGA4 Antibody (6M773)

## Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	6M773
Purification:	Affinity-chromatography

## Applications

Western Blot	-Positive WB detected in: Jurkat whole cell lysate
Verified Activity:	-All lanes: ITGA4 antibody at 1:1500
	-Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution
	-Predicted band size: 115, 26 kDa
	-Observed band size: 140 kDa
Application:	ELISA, WB
Recommended	WB:1:500-1:5000.

## Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	A synthetic peptide: Human Integrin alpha 4
Antigen Species:	Human
Gene ID:	3676
Uniprot ID:	P13612
Synonyms:	CD49 antigen-like family member D;Integrin alpha-4;ITGA 4;Integrin alpha-IV;CD49D;CD antigen CD49d;VLA-4 subunit alpha
Biology Area:	Cardiovascular, Immunology, Signal transduction, Stem cells

## Research Background

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. 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.

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