

# ITGA4 Monoclonal Antibody (TA-2)

Product Details	
Size	500 µg
Species Reactivity	Human, Rat
Published Species	Rat, Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	TA-2
Conjugate	Unconjugated
Immunogen	Rat 150 kD alpha4 chain of VLA-4 (CD49d).
Form	Liquid
Concentration	1.0 mg/mL
Purification	purified
Storage buffer	PBS
Contains	no preservative
Storage conditions	-20°C
RRID	AB_223594

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	Assay-dependent	-
Flow Cytometry (Flow)	Assay-dependent	1 Publication
ELISA (ELISA)	-	1 Publication
Immunoprecipitation (IP)	-	1 Publication
Neutralization (Neu)	Assay-dependent	3 Publications

## Product Specific Information

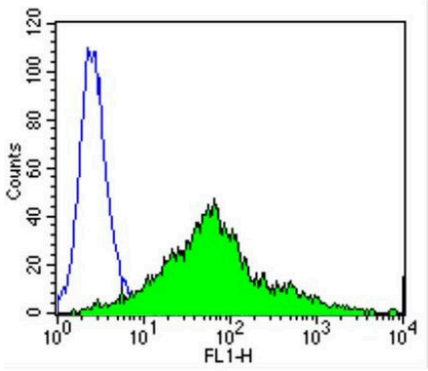
MA49D7 targets CD49d in FACS, IHC, and Neu applications and shows reactivity with Rat and Human samples.

The MA49D7 immunogen is rat 150 kD alpha4 chain of VLA-4 (CD49d).

MA49D7 detects CD49d which has a predicted molecular weight of approximately 111 kDa.

This product has been tested for endotoxins by limulus amoebocyte lysate (LAL) assay and contains an endotoxin concentration of less than or equal to 10 endotoxin units per milligram (EU/mg).

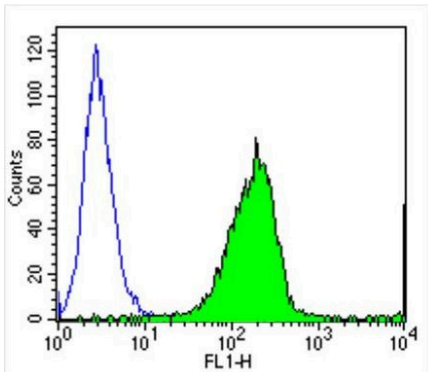
Product Images For ITGA4 Monoclonal Antibody (TA-2)



Cell: THP-1  
Concentration: 0.5µg/test (100µl)

ITGA4 Antibody (MA49D7) in Flow

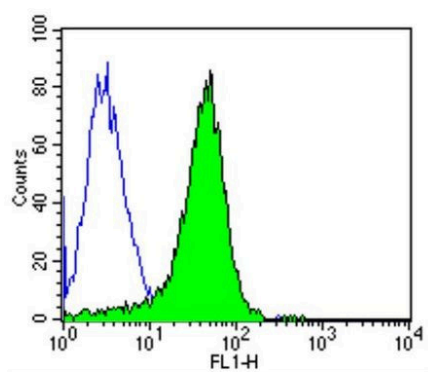
Flow cytometry analysis of CD49d in THP-1 cells (green) compared to an isotype control (blue). Cells were harvested, adjusted to a concentration of 1-5x10<sup>6</sup> cells/mL, fixed with 2% paraformaldehyde and washed with PBS. Cells were blocked with a 2% solution of BSA-PBS for 30 min at room temperature and incubated with a CD49d monoclonal antibody (Product # MA49D7) at a dilution of 0.5 µg/test for 60 min at room temperature. Cells were then incubated for 40 min at room temperature in the dark using a Dylight 488-conjugated secondary antibody and re-suspended in PBS for FACS analysis.



Cell: C6  
Concentration: 0.5µg/test (100µl)

ITGA4 Antibody (MA49D7) in Flow

Flow cytometry analysis of CD49d in C6 cells (green) compared to an isotype control (blue). Cells were harvested, adjusted to a concentration of 1-5x10<sup>6</sup> cells/mL, fixed with 2% paraformaldehyde and washed with PBS. Cells were blocked with a 2% solution of BSA-PBS for 30 min at room temperature and incubated with a CD49d monoclonal antibody (Product # MA49D7) at a dilution of 0.5 µg/test for 60 min at room temperature. Cells were then incubated for 40 min at room temperature in the dark using a Dylight 488-conjugated secondary antibody and re-suspended in PBS for FACS analysis.



Cell: Jurkat  
Concentration: 1µg/test (100µl)

ITGA4 Antibody (MA49D7) in Flow

Flow cytometry analysis of CD49d in Jurkat cells (green) compared to an isotype control (blue). Cells were harvested, adjusted to a concentration of 1-5x10<sup>6</sup> cells/mL, fixed with 2% paraformaldehyde and washed with PBS. Cells were blocked with a 2% solution of BSA-PBS for 30 min at room temperature and incubated with a CD49d monoclonal antibody (Product # MA49D7) at a dilution of 1 µg/test for 60 min at room temperature. Cells were then incubated for 40 min at room temperature in the dark using a Dylight 488-conjugated secondary antibody and re-suspended in PBS for FACS analysis.

Flow Cytometry (1)

Medicine and science in sports and exercise	Year 1999
<b>Lymphocyte subpopulations in lymphoid organs of rats after acute resistance exercise.</b>	Species Rat
"MA49D7 was used in flow cytometry to investigate the changes of lymphocyte subpopulations in vivo with acute resistance exercise"	
Authors: Mastro AM,Schlosser DA,Grove DS,Lincoski C,Pishak SA,Gordon S,Kraemer WJ	

ELISA (1)

Blood	Year 2000
<b>VCAM-1 has a tissue-specific role in mediating interleukin-4-induced eosinophil accumulation in rat models: evidence for a dissociation between endothelial-cell VCAM-1 expression and a functional role in eosinophil migration.</b>	Species Rat
"MA49D7 was used in ELISA to investigate the role of endothelial-cell VCAM-1 in eosinophil accumulation"	
Authors: Larbi KY,Allen AR,Tam FW,Haskard DO,Lobb RR,Silva PM,Nourshargh S	

Immunoprecipitation (1)

Journal of immunology (Baltimore, Md. : 1950)	Year 1991
<b>Effect of a new monoclonal antibody, TA-2, that inhibits lymphocyte adherence to cytokine stimulated endothelium in the rat.</b>	Species Rat
"MA49D7 was used in immunoprecipitation to study the lymphocyte and endothelium adhesion in rats"	
Authors: Issekutz TB,Wykretowicz A	

Neutralization (3)

Arthritis research & therapy	Year 2008
<b>Resting CD4+ effector memory T cells are precursors of bystander-activated effectors: a surrogate model of rheumatoid arthritis synovial T-cell function.</b>	Species Human
"MA49D7 was used in blocking/activating experiment to study the role of resting CD4+ effector memory T cells in rheumatoid arthritis"	
Authors: Brennan FM,Smith NM,Owen S,Li C,Amjadi P,Green P,Andersson A,Palfreeman AC,Hillyer P,Foeys A,Beech JT,Feldmann M	
	Dilution 5 µg/mL

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