

## Anti-Mouse CD49d Antibody

<b>Catalog Number:</b>	203501, 203502
<b>Size:</b>	25 ug, 100 ug
<b>Target Name:</b>	CD49d, ITGA4, integrin alpha 4
<b>Regulatory Status:</b>	RUO

### PRODUCT DETAILS

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<b>Clone:</b>	R1-2
<b>Application:</b>	Flow Cytometry
<b>Reactivity:</b>	Mouse
<b>Format:</b>	Purified
<b>Isotype:</b>	Rat IgG2b
<b>Antibody Type:</b>	Monoclonal
<b>Formulation:</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
<b>Protein Concentration:</b>	0.5 mg/mL
<b>Storage&amp;Handling:</b>	The antibody solution should be stored between 2°C and 8°C
<b>Recommended Usage:</b>	For flow cytometric staining, it is recommended to use less than 0.2 ug of this reagent per 0.5-1.0 million cells in a 100 µL volume. Optimal reagent performance should be determined by titration for each specific application.
<b>Isotype Control:</b>	303601

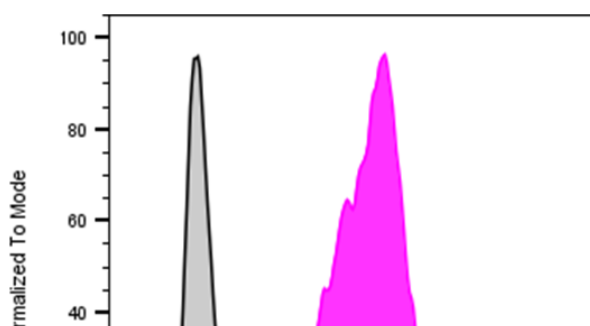
### BACKGROUND INFORMATION

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CD49d, also known as integrin alpha 4 (ITGA4), is a 150 kDa integrin subunit expressed on a wide range of mouse immune cells, including T and B lymphocytes, monocytes, eosinophils, NK cells, and dendritic cells. CD49d associates with integrin  $\beta$ 1 (CD29) to form very late antigen-4 (VLA-4,  $\alpha$ 4 $\beta$ 1) and with integrin  $\beta$ 7 to form  $\alpha$ 4 $\beta$ 7 (LPAM-1). These integrins mediate leukocyte adhesion, migration, and tissue homing through interactions with ligands such as VCAM-1, MAdCAM-1, and fibronectin. CD49d also contributes to T cell co-stimulation and plays a key role in inflammatory and immune responses.

### PRODUCT DATA

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Mouse splenocytes were stained with purified Anti-Mouse CD49d clone R1-2 (color-filled histogram) or an isotype control (gray histogram), followed by PE anti-Rat IgG.