

#### OriGene Technologies, Inc.

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# Product datasheet for SM268B

### Cd28 Mouse Monoclonal Antibody [Clone ID: JJ319]

### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	JJ319
Applications:	FC
Recommended Dilut	ion: Flow Cytometry (for details please see "Protocols" below).
Reactivity:	Rat
Host:	Mouse
lsotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Rat CD28 transfected A20J cells
Specificity:	Antibody SM268B recognizes a 90 kDa homeodimeric cell surface glycoprotein (CD28). <b>Results of tissue Distribution by Flow Cytometry Analysis:</b> Rat strain: Fischer Cell concentration: 1x10e6 cells per test Antibody concentration used: 1.0 μg/10e6 cells Isotypic control: Biotin Mouse IgG1 <u>Cell source percentage of cells stained above control</u> Thymus: 25.4% Splenic T Cells*: 73.2% *(T cells isolated with a Rat T Cell Recovery Column).
Formulation:	PBS containing 0.02% Sodium Azide and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml Label: Biotin State: Liquid purified lg fraction
Concentration:	lot specific
Purification:	Protein G Chromatography
Conjugation:	Biotin
Storage:	Store at 2-8°C for up to one month. For longer storage, aliquot and freeze unused portion at - 20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.



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	Cd28 Mouse Monoclonal Antibody [Clone ID: JJ319] – SM268B
Stability:	Shelf life: one year from despatch.
Gene Name:	Cd28 molecule
Database Link:	<u>Entrez Gene 25660 Rat</u> <u>P31042</u>
Background:	CD28 has been found to be a potent costimulatory receptor on T cells. It is expressed on all peripheral rat alpha/beta and most gamma/delta T cells, as well as on approximately half of all NK cells.
Synonyms:	TP44
Note:	This clone can costimulate T cell proliferation and IL-2 secretion by resting rat T cells.
	<ul> <li>Protocol: <u>FLOW CYTOMETRY ANALYSIS:</u> Method:</li> <li>1. Prepare a cell suspension in media A. For cell preparations, deplete the red blood cell population.</li> <li>2. Wash 2 times.</li> <li>3. Resuspend the cells to a concentration of 2x10e7 cells/ml in media A. Add 50 µl of this suspension to each tube (each tube will then contain 1 x 10e6 cells, representing 1 test).</li> <li>4. To each tube, add ~ 1.0 µg (optimize according to your assay conditions) of SM268B or SM268BX per 10e6 cells.</li> <li>5. Vortex the tubes to ensure thorough mixing of antibody and cells.</li> <li>6. Incubate the tubes for 30 minutes at 4°C.</li> <li>7. Wash 2 times at 4°C.</li> <li>8. Add 100 µl of secondary antibody (Streptavidin-PE) at a appropriate dilution.</li> <li>9. Incubate tubes at 4°C for 30 - 60 minutes (It is recommended that tubes are protected from light since most fluorochromes are light sensitive).</li> <li>10. Wash 2 times at 4°C.</li> <li>11. Resuspend the cell pellet in 50 µl ice cold media B.</li> <li>12. Transfer to suitable tubes for flow cytometric analysis containing 15 µl of propidium iodide at 0.5 mg/ml in PBS. This stains dead cells by intercalating in DNA.</li> </ul>

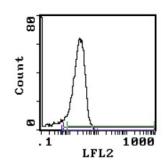
A. Phosphate buffered saline (pH 7.2) + 5% normal serum of host species + sodium azide (100  $\mu$ l of 2M sodium azide in 100 mls).

B. Phosphate buffered saline (pH 7.2) + 0.5% Bovine serum albumin + sodium azide (100  $\mu$ l of 2M sodium azide in 100 mls).

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## **Product images:**



Flow cytometry analysis

Cell Source: Splenic T Cells Percentage of cells stained above control: 73.2%

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