



## CD28 Antibody [JJ319]

CATALOG NUMBER: 76-744

### Specifications

|                             |  |
|-----------------------------|--|
| <b>SPECIES REACTIVITY:</b>  | Rat  |
| <b>TESTED APPLICATIONS:</b> | FACS, Func   |
| <b>USER NOTE:</b>           | Optimal dilutions for each application to be determined by the researcher.   |
| <b>SPECIFICITY:</b>         | The JJ319 monoclonal antibody specifically reacts with rat CD28, a 44 kDa glycoprotein member of the immunoglobulin superfamily. |
| <b>HOST SPECIES:</b>        | Mouse  |

### Properties

|                            |  |
|----------------------------|--|
| <b>PURIFICATION:</b>       | The monoclonal antibody was purified utilizing affinity chromatography. The endotoxin level is determined by LAL test to be less than 0.01 EU/μg of the protein. |
| <b>PHYSICAL STATE:</b>     | liquid   |
| <b>BUFFER:</b>             | Phosphate-buffered aqueous solution, pH7.2.  |
| <b>CONCENTRATION:</b>      | 1 mg/mL  |
| <b>STORAGE CONDITIONS:</b> | The product should be stored undiluted at 4°C . Do not freeze.   |
| <b>CLONALITY:</b>          | Monoclonal   |
| <b>ISOTYPE:</b>            | Mouse IgG1   |
| <b>CONJUGATE:</b>          | Unconjugated   |

### Additional Info

|                         |               |
|-------------------------|---------------|
| <b>ALTERNATE NAMES:</b> | CD28RNA, Cd28 |
| <b>OFFICIAL SYMBOL:</b> | Cd28          |
| <b>GENE ID:</b>         | 25660         |

### Background

|                    |  |
|--------------------|--|
| <b>BACKGROUND:</b> | The JJ319 monoclonal antibody specifically reacts with rat CD28, a 44 kDa glycoprotein member of the immunoglobulin superfamily. CD28 is expressed on alpha/beta TCR+ T cells, some gamma/delta TCR+ T cells and a subset of NK cells. CD28 is a costimulatory receptor required for T cell activation. Its ligands are CD80 (B7-1) and CD86 (B7-2).   |
| <b>REFERENCES:</b> | <p>1) Nandi, D., Gross, J. A., Allison, J. P. (1994). CD28-mediated costimulation is necessary for optimal proliferation of murine NK cells. <i>The Journal of Immunology</i>, 152(7), 3361-3369.</p> <p>2) Gross, J. A., Callas, E. L. E. N. I., Allison, J. P. (1992). Identification and distribution of the costimulatory receptor CD28 in the mouse. <i>The Journal of Immunology</i>, 149(2), 380-388.</p> <p>3) Nishio, M., Spielman, J., Lee, R. K., Nelson, D. L., Podack, E. R. (1996). CD80 (B7. 1) and CD54 (intracellular adhesion molecule-1) induce target cell susceptibility to promiscuous cytotoxic T cell lysis. <i>The Journal of Immunology</i>, 157(10), 4347-4353.</p> |

**FOR RESEARCH USE ONLY**

