

### 43-1048: Monoclonal Antibody to Human CD28 NALE™ Purified (Clone: CD28.2)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	CD28.2
<b>Application :</b>	FACS
<b>Reactivity :</b>	Human
<b>Gene :</b>	CD28
<b>Gene ID :</b>	940
<b>Uniprot ID :</b>	P10747
<b>Alternative Name :</b>	TP44, T-cell-specific surface glycoprotein CD28
<b>Isotype :</b>	Mouse IgG1, kappa

#### Description

The CD28.2 monoclonal antibody specifically binds with the human 44 kDa homodimeric trans-membrane glycoprotein CD28, expressed on the surface of most mature T lymphocytes, plasma cells, and thymocytes. CD28 is a ligand for B7-1 (CD80) and B7-2 (CD86), a co-stimulator of T lymphocytes, and enhances the interaction between T and B lymphocytes. It has been reported that the T lymphocytes stimulation to produce IL-2 depends on the monoclonal antibody involved, which suggests that the CD28 molecule presents some subregions with distinct functions. The CD28.2 antibody induces Ca<sup>2+</sup> influx in Jurkat T lymphocytes. Other studies have shown that CD28 is involved in the signal transduction.

#### Product Info

<b>Amount :</b>	100ug / 500 µg
<b>Content :</b>	2 mg/ml in Phosphate-buffered aqueous solution, pH7.2.
<b>Storage condition :</b>	The product should be stored undiluted at 4°C. Do not freeze. 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.

#### Application Note

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. It is recommended that the reagent be titrated for optimal performance for each application.