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CD28 Antibody [CD28.2]

CATALOG NUMBER: 76-725

Specifications

SPECIES REACTIVITY:	Human
TESTED APPLICATIONS:	FACS, Func, IHC, IP
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
SPECIFICITY:	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.
HOST SPECIES:	Mouse

Properties

PURIFICATION:	The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.
PHYSICAL STATE:	liquid
BUFFER:	Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, ph7.2.
CONCENTRATION:	0.5 mg/mL
STORAGE CONDITIONS:	The product should be stored undiluted at 4˚C and should be protected from prolonged exposure to light. Do not freeze.
CLONALITY:	Monoclonal
ISOTYPE:	Mouse IgG1, kappa
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	Tp44, CD28
OFFICIAL SYMBOL:	CD28
GENE ID:	920

Background

BACKGROUND:	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 Ca2+ influx in Jurkat T lymphocytes. Other studies have shown that CD28 is involved in the signal transduction.
REFERENCES:	1) Schlossman, S., L. Bloumsell, et al. eds (1995). Leucocyte Typing V: White Cell Differentiation Antigens. Oxford University Press. New York
	2) Nuns, J., Klasen, S., Ragueneau, M., Pavon, C., Couez, D., Mawas, C., ... Olive, D. (1993). CD28 mAbs with distinct binding properties differ in their ability to induce T cell activation: analysis of early and late activation events.International immunology,5(3), 311-315.
	3) Karlsson, I., Malleret, B., Brochard, P., Delache, B., Calvo, J., Le Grand, R., Vaslin, B. (2007). FoxP3+ CD25+

CD8+ T-cell induction during primary simian immunodeficiency virus infection in cynomolgus macaques correlates with low CD4+ T-cell activation and high viral load.Journal of virology,81(24), 13444-13455.

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