

Datasheet for ABIN2749055  
**anti-CD28 antibody (FITC)**



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## Overview

Quantity:	0.1 mg
Target:	CD28
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD28 antibody is conjugated to FITC
Application:	Flow Cytometry (FACS)

## Product Details

Immunogen:	Mouse A20J B lymphoma cells transfected with rat CD28
Clone:	JJ319
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody JJ319 reacts with an extracellular epitope of CD28, a disulfide-linked homodimeric type I glycoprotein (monomer of Mw 44 kDa) which is a critical costimulatory receptor of T cells.
Cross-Reactivity (Details):	Rat
Purification:	Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

## Target Details

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Target:	CD28
Alternative Name:	CD28 ( <a href="#">CD28 Products</a> )
Background:	CD28 Molecule,CD28 is the critical T cell costimulatory receptor which provides to the cell the important second activation signal by binding CD80 and CD86 that are expressed by antigen presenting cells. Besides its costimulation role CD28 functions in preventing T cells from anergic hyporesponsive state or from undergoing premature apoptotic cell death. CD28 is also expressed on human fetal NK cells and some NK cell lines, whereas on murine NK cells the CD28 expression is much broader.,Tp44
Gene ID:	25660
UniProt:	<a href="#">P31042</a>
Pathways:	<a href="#">TCR Signaling</a> , <a href="#">Fc-epsilon Receptor Signaling Pathway</a> , <a href="#">EGFR Signaling Pathway</a> , <a href="#">Regulation of Leukocyte Mediated Immunity</a> , <a href="#">Positive Regulation of Immune Effector Process</a> , <a href="#">Production of Molecular Mediator of Immune Response</a>

## Application Details

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Application Notes:	Flow cytometry: Recommended dilution: 2 µg/mL.
Comment:	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC.
Restrictions:	For Research Use only

## Handling

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Concentration:	0.5 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

## Publications

Product cited in:

Guillonneau, Séveno, Dugast, Li, Renaudin, Haspot, Usal, Veziere, Anegon, Vanhove: "Anti-CD28 antibodies modify regulatory mechanisms and reinforce tolerance in CD40Ig-treated heart allograft recipients." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 179, Issue 12, pp. 8164-71, (2007) ([PubMed](#)).

Kerstan, Armbruster, Leverkus, Hünig: "Cyclosporin A abolishes CD28-mediated resistance to CD95-induced apoptosis via superinduction of caspase-3." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 177, Issue 11, pp. 7689-97, (2006) ([PubMed](#)).

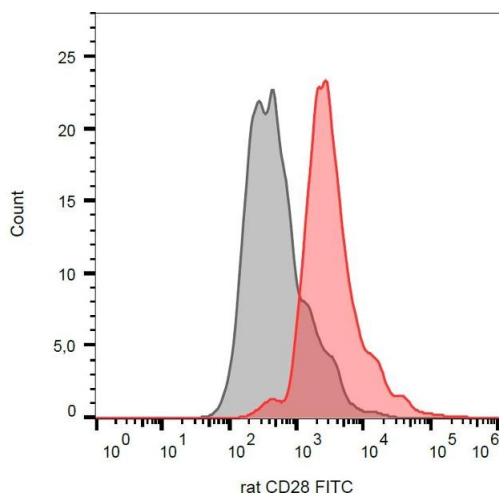
van den Brandt, Wang, Reichardt: "Resistance of single-positive thymocytes to glucocorticoid-induced apoptosis is mediated by CD28 signaling." in: **Molecular endocrinology (Baltimore, Md.)**, Vol. 18, Issue 3, pp. 687-95, (2004) ([PubMed](#)).

Lühder, Huang, Dennehy, Guntermann, Müller, Winkler, Kerkau, Ikemizu, Davis, Hanke, Hünig: "Topological requirements and signaling properties of T cell-activating, anti-CD28 antibody superagonists." in: **The Journal of experimental medicine**, Vol. 197, Issue 8, pp. 955-66, (2003) ([PubMed](#)).

Laskowski, Pratschke, Wilhelm, Dong, Beato, Taal, Gasser, Hancock, Sayegh, Tilney: "Anti-CD28 monoclonal antibody therapy prevents chronic rejection of renal allografts in rats." in: **Journal of the American Society of Nephrology : JASN**, Vol. 13, Issue 2, pp. 519-27, (2002) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)

## Images



### Flow Cytometry

**Image 1.** Flow cytometry analysis (surface staining) of rat thymocytes (red-filled) with anti-rat CD28 (JJ319) FITC and unstained rat thymocytes (grey-filled).