

Datasheet for ABIN638435

anti-CD28 antibody

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Overview

Quantity:	0.1 mg
Target:	CD28
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD28 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunoprecipitation (IP), Western Blotting (WB), Functional Studies (Func), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunocytochemistry (ICC)

Product Details

Immunogen:	DC28.1.3.3 murine T cell hybridoma transfected with human CD28 cDNA
Clone:	CD28-2
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody CD28.2 recognizes 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):	Human, Non-Human Primates
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)
Endotoxin Level:	Endotoxin level is less than 0.01 EU/μg of the protein, as determined by the LAL test.

Target Details

Target:	CD28
Alternative Name:	CD28 (CD28 Products)
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:	940
UniProt:	P10747
Pathways:	TCR Signaling , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process , Production of Molecular Mediator of Immune Response

Application Details

Application Notes:	Functional application: T cell costimulation. Flow cytometry: Recommended dilution: 1-12 µg/mL
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4
Preservative:	Azide free
Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

Product cited in:	Scharschmidt, Wegener, Heissmeyer, Rao, Krappmann: "Degradation of Bcl10 induced by T-cell activation negatively regulates NF-kappa B signaling." in: Molecular and cellular biology , Vol. 24 , Issue 9, pp. 3860-73, (2004) (PubMed).
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Jeong, Qiao, Nascimbeni, Hu, Rehmann, Murthy, Liang: "Immunization with hepatitis C virus-like particles induces humoral and cellular immune responses in nonhuman primates." in:

Journal of virology, Vol. 78, Issue 13, pp. 6995-7003, (2004) ([PubMed](#)).

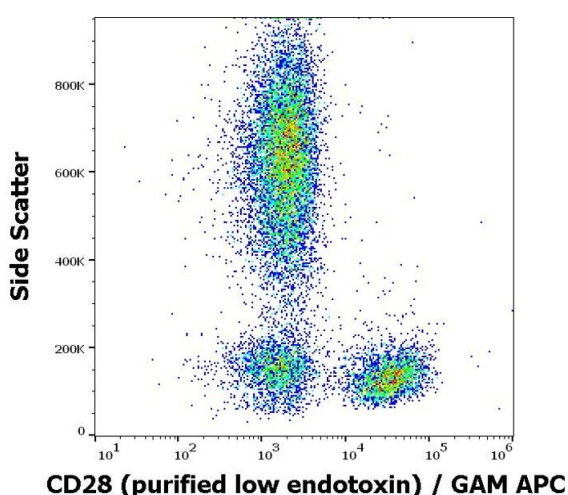
Marti, Krause, Post, Lyddane, Dupont, Sadelain, King: "Negative-feedback regulation of CD28 costimulation by a novel mitogen-activated protein kinase phosphatase, MKP6." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 166, Issue 1, pp. 197-206, (2001) ([PubMed](#)).

Galea-Lauri, Darling, Gan, Krivochchapov, Kuiper, Gäken, Souberbielle, Farzaneh: "Expression of a variant of CD28 on a subpopulation of human NK cells: implications for B7-mediated stimulation of NK cells." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 163, Issue 1, pp. 62-70, (1999) ([PubMed](#)).

Tazi, Moreau, Bergeron, Dominique, Hance, Soler: "Evidence that Langerhans cells in adult pulmonary Langerhans cell histiocytosis are mature dendritic cells: importance of the cytokine microenvironment." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 163, Issue 6, pp. 3511-5, (1999) ([PubMed](#)).

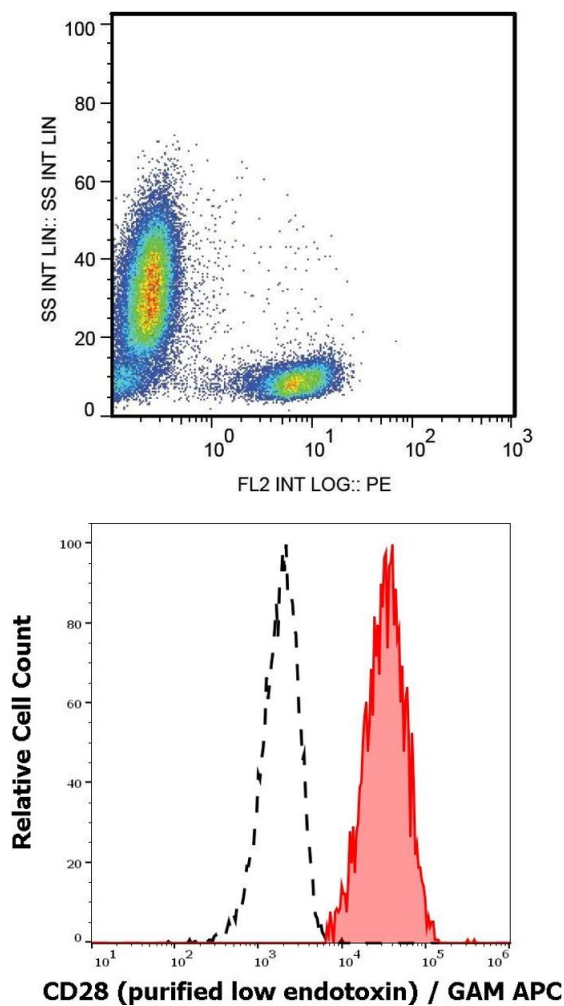
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Images



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral blood stained using anti-human CD28 (CD28.2) purified antibody (low endotoxin, concentration in sample 1,6 µg/mL) GAM APC.



Flow Cytometry

Image 2. Surface staining of human peripheral blood leukocytes with anti-human CD28 (CD28.2) purified.

Flow Cytometry

Image 3. Separation of human CD28 positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD28 (CD28.2) purified antibody (low endotoxin, concentration in sample 1,6 µg/mL) GAM APC.