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Datasheet for ABIN6941133

anti-CD28 antibody

3 Images

Overview

Quantity:	100 µg
Target:	CD28
Reactivity:	Human, Mouse, Cow, Pig, Sheep
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD28 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunofluorescence (IF), Functional Studies (Func)

Product Details

Immunogen:	Stimulated human leucocytes
Clone:	204-12
Isotype:	IgG2a kappa
Specificity:	Recognizes a glycoprotein of 44-88 kDa, which is identified as CD28. It is the critical T-cell co-stimulatory 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 co-stimulation 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.
Purification:	Purified by Protein A/G

Target Details

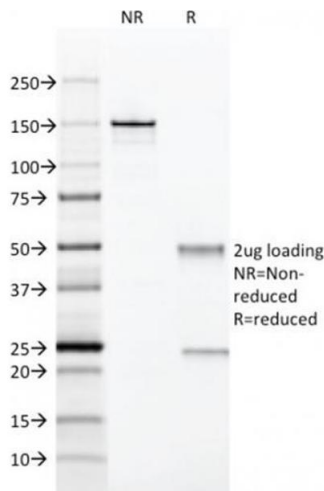
Target:	CD28
Alternative Name:	CD28 (CD28 Products)
Molecular Weight:	44kDa (monomer), 88kDa (dimer)
Gene ID:	940
UniProt:	P10747
Pathways:	TCR Signaling , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process , Production of Molecular Mediator of Immune Response

Application Details

Application Notes:	Positive Control: Jurkat cells. Human lymph nodes and tonsils. Known Application: Flow Cytometry (1-2 µg/million cells), Immunofluorescence (1-2 µg/mL) Functional Studies (Order Ab without BSA & Azide), Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

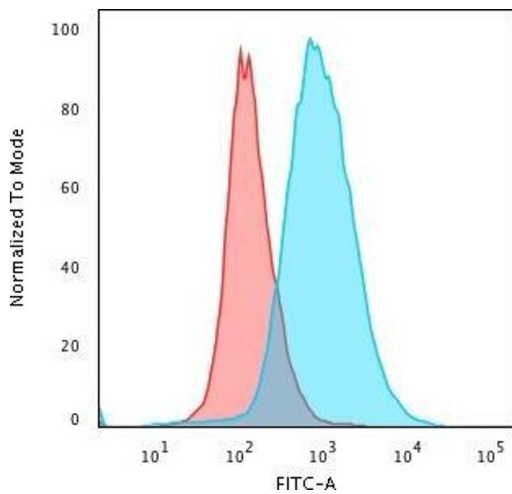
Handling

Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % 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,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months



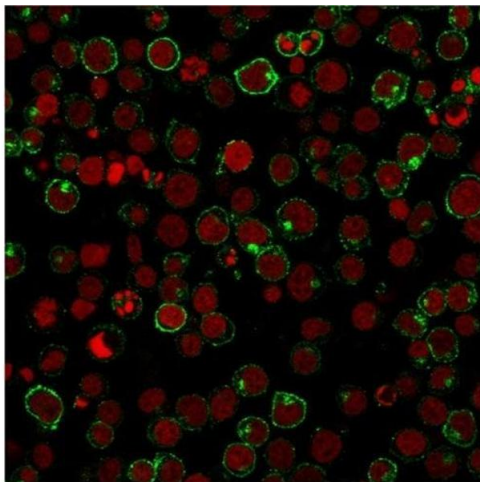
SDS-PAGE

Image 1. SDS-PAGE Analysis Purified CD28 Mouse Monoclonal Antibody (204.12). Confirmation of Integrity and Purity of Antibody.



Flow Cytometry

Image 2. Flow Cytometric Analysis of paraformaldehyde-fixed Jurkat cells using CD28 Mouse Monoclonal Antibody (204.12) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype control (Red).



Immunofluorescence

Image 3. Immunofluorescent staining of Jurkat cells using CD28 Mouse Monoclonal Antibody (204.12) followed by goat anti-Mouse IgG conjugated to CF488 (green). Red Dot is used to label nuclei (red).