

anti-human CD28

Monoclonal antibody CD28.2 to human CD28

Cat-No: **21270281**

100 µg

Clone: CD28.2

Specificity: The antibody CD28.2 reacts with CD28, a disulfide-linked homodimeric type I glycoprotein (monomer of Mw 44 kDa) which is a critical costimulatory receptor of T cells.
HLDA V.; WS Code 5T CD28.0

Isotype subclass: Mouse IgG1

Form: Purified from hybridoma culture supernatant by protein-A affinity chromatography.

Purity: > 95% (by SDS-PAGE)

Physical state: Liquid

Buffer/Additives/Preservative: PBS, pH 7.2, containing 0.09% sodium azide

Expiration date: The reagent is stable until the expiry date stated on the vial label.

Storage conditions: Aliquot and store at -20°C. Avoid freeze/thaw cycles.
Should be handled under aseptic conditions.

Application: Flow Cytometry

References:

- 1.) Nunes J, Klasen S, Ragueneau M, Pavon C, Couez D, Mawas C, Bagnasco, M, Olive D: CD28 mAbs with distinct binding properties differ in their ability to induce T cell activation: analysis of early and late activation events. *Int Immunol.* 1993 Mar;5(3):311-5.
- 2.) Marti F, Krause A, Post NH, Lyddane C, Dupont B, Sadelain M, King PD: Negative-feedback regulation of CD28 costimulation by a novel mitogen-activated protein kinase phosphatase, MKP6. *J Immunol.* 2001 Jan 1;166(1):197-206.
- 3.) Jeong SH, Qiao M, Nascimbeni M, Hu Z, Rehmann B, Murthy K, Liang TJ., Immunization with hepatitis C virus-like particles induces humoral and cellular immune responses in nonhuman primates. *J Virol.* 2004 Jul;78(13):6995-7003.

Background: 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.

Warning: Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

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