

Datasheet



Mouse mAb to **CD28 agonist**
Clone **CD28A-49**
Isotype **IgG1**

Source

A BALB/c mouse was immunized with rCD28.
Fusion partner: Sp2/0.

Specifications

CD28 is the critical T-cell co-stimulatory receptor which provides 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. CD28A-49 acts as agonist of CD28 mediated stimulation.

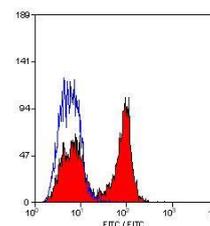


Figure 1: Human PBL stained for CD28 (FACS).

Species reactivity

Positive: human.

Applications

Demonstration of CD28 in immunofluorescence, frozen sections and for functional studies.

Flow cytometry	Frozen sections	Functional studies	Immunofluorescence
+	+	+	+

Format

Produced in tissue culture, contains no host Ig. Antibodies are affinity purified and presented in PBS with 0,02% sodium azide.
Stored at 4°C-8°C, shelf life is at least 24 months after purchase.

Dilution advice

- Flow cytometry (0.5-1.0 µg/million cells in 0.1ml).
- Functional studies (0.02-2µg/ml without azide).
- Immunofluorescence (0.5-1.0 µg/ml).
- Immunohistology (2-4 µg/ml for 30 min at RT; an antigen retrieval method for formalin-fixed tissues is unavailable for this antibody).

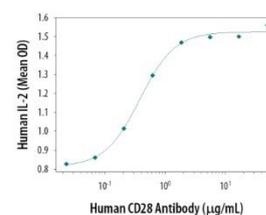


Figure 2: CD28 agonist induced IL-2 production in Jurkat cells.

Positive control

Jurkat cells or human lymph nodes and tonsils.

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References

- In Leucocyte typing Workshop VI. Sandilands, G. et al. *Clinical and Experimental Immunology*, 162(3), 516-27 (2010).
- Marti F, et al, *J Immunol.* **166(1)**: 197-206 (2001).
- Scharschmidt E, et al, *Mol Cell Biol.* **24(9)**: 3860-73 (2004).
- Jeong SH, et al, *J Virol.* **78(13)**: 6995-7003 (2004).