

## anti-human CD80 no azide

monoclonal antibody MEM-233 to human CD80

Cat-No: **21270800**

100 µg in 100 µl

**Clone:** MEM-233

**Specificity:** The antibody MEM-233 reacts with CD80 (B7-1), a 60 kDa single chain type I glycoprotein of immunoglobulin supergene family, expressed on professional antigen-presenting cells, such as dendritic cells, macrophages or activated B lymphocytes.

**Isotype subclass:** Mouse IgG1

**Purity:** > 95% (by SDS-PAGE)

**Physical state:** Liquid

**Buffer/Additives/Preservative:** PBS sterile, pH 7.2.

**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:** Functional Application

### References:

- \*Vasilevko V and others: 2002 Mar;21(3):137-49.
- \*Yadav D and others: 2004 Sep 15;173(6):3631-9.
- \*Thomas IJ and others: 2007 Nov 1;179(9):5936-46.
- \*Eri R and others: 2008 Jan 9

**Background:** CD80 (B7-1) and CD86 (B7-2) are ligands of T cell critical costimulatory molecule CD28 and of an inhibitory receptor CTLA-4 (CD152). The both B7 molecules are expressed on professional antigen-presenting cells and are essential for T cell activation, the both molecules can also substitute for each other in this process. The question what are the differences in CD80 and CD86 competency has not been fully elucidated yet; there are still conflicts in results about their respective roles in initiation or sustaining of the T cell immune response.

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