

# Product Datasheet

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## Anti-Mouse CD80 Purified *in vivo* GOLD™ Functional Grade Monoclonal Antibody

### Product Information

**Product No.:** C2045  
**Clone:** 16-10A1  
**RRID:** AB\_2749825  
**Isotype:** Armenian Hamster IgG  
**Storage:** Sterile 2-8°C

### Product Description

#### Specificity:

Clone 16-10A1 recognizes an epitope on mouse CD80.

#### Antigen Distribution:

CD80 is expressed on activated B cells, monocytes/macrophages, and dendritic cells.

#### Background:

CD80 is a highly glycosylated 60 kD protein that is part of the Ig superfamily and is significantly involved in immune cell activation in response to pathogens. CD80 is closely related to, and works in tandem with CD86 (B7-2) to prime T- cells. CD80 binds to CTLA-4 to deliver an inhibitory signal to T cells. The ligation of CD28 on T cells with CD80 and CD86 on APCs co-stimulates T cells resulting in enhanced cell activation, proliferation, and cytokine production. It is thought that CD80 interacts with a ligand on Natural Killer cells, activating the Natural Killer cell-mediated cell death of the CD80 carrier. The activation of Natural Killer cell-mediated death via CD80 interactions has potential as a possible cancer immunotherapy through the induction of CD80 expression on tumor cells.

#### Known Reactivity Species:

Mouse

#### Format:

*in vivo* GOLD™, Purified *in vivo* Functional Grade

#### Immunogen:

Purified Recombinant Mouse CD80 (>98%)

#### Formulation

This monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4 with no carrier protein, potassium, calcium or preservatives added. Due to inherent biochemical properties of antibodies, certain products may be prone to precipitation over time. Precipitation may be removed by aseptic centrifugation and/or filtration.

#### Purity

≥95% monomer by analytical SEC, >95% by SDS Page

#### Endotoxin

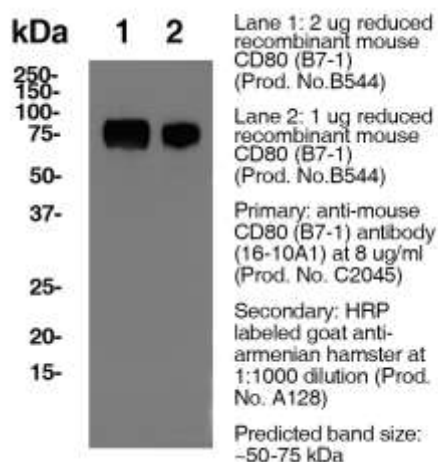
< 1.0 EU/mg as determined by the LAL method

#### Storage and Stability

Functional grade preclinical antibodies may be stored sterile as received at 2-8°C for up to one month. For longer term storage, aseptically aliquot in working volumes without diluting and store at ≤ -70°C. **Avoid Repeated Freeze Thaw Cycles.**

#### Product Preparation

Functional grade preclinical antibodies are manufactured in an animal free facility using *in vitro* cell culture techniques and are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates.



Products are for research use only. Not for use in diagnostic or therapeutic procedures.

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**Other Applications Reported in Literature:**

CyTOF®

**Country of Origin**

USA

**References**

1.) Gubin, M. *et al.* (2018) *Cell*. **175**(4):1014–1030.e19 [Journal Link](#)



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