Pacific Blue™ anti-mouse CD48

Catalog # / Size: 1117090 / 100 µg

1117085 / 25 µg

Clone: HM48-1

Isotype: Hamster IgG

Immunogen: Mouse T lymphoma MBL-2

Reactivity: Mouse

Preparation: The antibody was purified by affinity

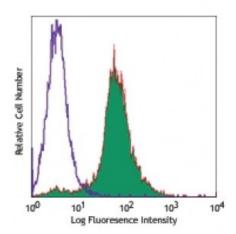
chromatography, and conjugated with Pacific Blue[™] under optimal conditions. The solution is free of unconjugated

Pacific Blue™.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide.

Concentration: 0.5



C57BL/6 mouse splenocytes stained with Pacific blue™ HM48-1

Applications:

Applications: Flow Cytometry

Recommended

Usage:

Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 0.25 microg per 10^6 cells in 100 microL volume. It is

recommended that the reagent be titrated for optimal performance for each

application.

* Pacific Blue™ has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue[™] conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

Application Notes:

The HM48-1 antibody is useful for blocking in vitro and in vivo CD48 mediated interactions. Additional reported applications (for the relevant formats) include: immunoprecipitation1, costimulation of T cell proliferation^{1,2}, blocking of CD48-CD2 interaction1, and inhibition of CTL activity and graft rejection^{1,2}. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 103408). For in vivo studies or highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 103430) with a lower endotoxin limit than standard LEAF™ purified antibodies (Endotoxin < 0.01 EU/microg).

Application References:

- 1. Kato K, et al. 1992. J. Exp. Med. 176:1241. (IP, Costim, Block)
- 2. Qin L, et al. 1994. J. Exp. Med. 179:341. (Costim, Block)
- 3. Grassinger J, et al. 2012. Cytokine. 58:518. PubMed
- 4. Charmsaz S, et al. 2015. PLoS One. 10:130692. PubMed

CD48 is a 45 kD GPI-anchored glycoprotein also known as BCM1, Blast-1 (human), **Description:**

and OX-45 (rat). It is a member of the Ig superfamily, expressed on T and B cells and monocytes/macrophages. It plays a role in adhesion and T cell recognition.

The primary ligands for CD48 are CD2 and CD244.

Antigen **References:**

- 1. Barclay AN, et al. 1997. The Leukocyte Antigen FactsBook Academic Press.
- 2. Flament C, et al. 1996. Hum. Immunol. 46:82.
- 3. Van der Merwe PA, et al. 1995. Curr. Biol. 5:74.

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