

**PE anti-mouse CD48**

**Catalog # / Size:** 1117030 / 200 µg  
1117025 / 50 µg

**Clone:** HM48-1

**Isotype:** Hamster IgG

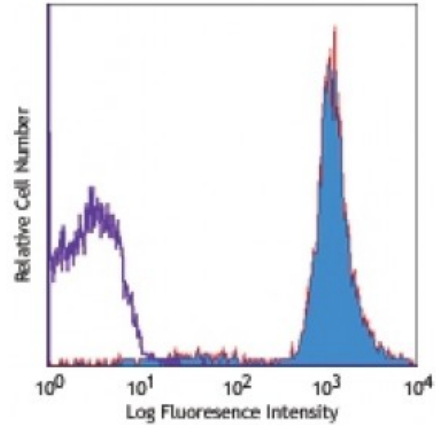
**Immunogen:** Mouse T lymphoma MBL-2

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.2



C57BL/6 mouse splenocytes stained with HM48-1 PE

**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<sup>6</sup> cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

**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: immunoprecipitation<sup>1</sup>, costimulation of T cell proliferation<sup>1,2</sup>, blocking of CD48-CD2 interaction<sup>1</sup>, and inhibition of CTL activity and graft rejection<sup>1,2</sup>. 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. Liu J, *et al.* 2012. *PLoS One.* 7:e44044. [PubMed](#)
4. Revollo J, *et al.* 2015. *Mutagenesis.* 30:315. [PubMed](#)

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