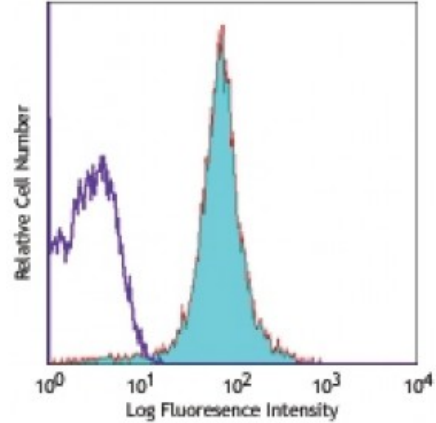


**Alexa Fluor® 647 anti-mouse CD48**

**Catalog # / Size:** 1117080 / 100 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 Alexa Fluor® 647 under optimal conditions.  
**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.  
**Concentration:** 0.5



C57BL/6 mouse splenocytes stained with HM48-1 Alexa Fluor® 647

**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.

\* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.

**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)

**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