

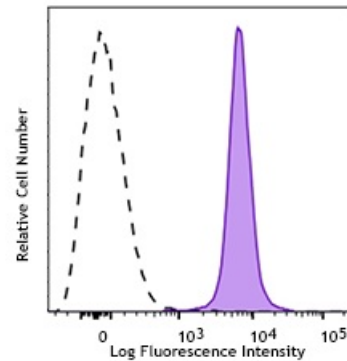
**Brilliant Violet 785™ anti-mouse CD48**

**Catalog # / Size:** 1117245 / 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 Brilliant Violet 785™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 785™ and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

**Concentration:** 0.2 mg/ml



C57BL/6 splenocytes were stained with CD48 (clone HM48-1) Brilliant Violet 785™ (filled histogram) or Armenian Hamster IgG Brilliant Violet 785™ isotype control (open histogram).

**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 ≤ 0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 785™ excites at 405 nm and emits at 785 nm. The bandpass filter 780/60 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 785™ is a trademark of Sirigen Group Ltd.

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**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>.

**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, *et al.* 1998. *J. Immunol.* 161:5809.