

## TECHNICAL DATA SHEET

# redFluor™ 710 Anti-Mouse CD48 (HM48-1)

Catalog Number: 80-0481

## PRODUCT INFORMATION

**Contents:** redFluor™ 710 Anti-Mouse CD48 (HM48-1)

**Isotype:** Armenian Hamster IgG

**Concentration:** 0.2 mg/mL

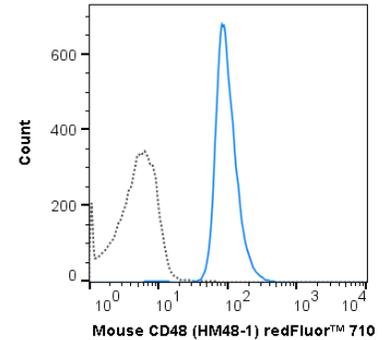
**Clone:** HM48-1

**Reactivity:** Mouse

**Use By:** 6 months from date of receipt

**Storage Conditions:** 2-8°C protected from light

**Formulation:** 10 mM NaH<sub>2</sub>PO<sub>4</sub>, 150 mM NaCl, 0.09% NaN<sub>3</sub>, 0.1% gelatin, pH7.2



C57Bl/6 splenocytes were stained with 0.5 ug redFluor™ 710 Anti-Mouse CD48 (80-0481) (solid line) or 0.5 ug redFluor™ 710 Armenian Hamster IgG isotype control (dashed line).

## DESCRIPTION

The HM48-1 monoclonal antibody reacts with mouse CD48, a 45 kDa GPI-anchored glycoprotein that is also known as BCM1. CD48 is a member of the signaling lymphocyte activation molecule (SLAM) family and Ig superfamily. It is expressed on leukocytes, but not on non-hematopoietic cells and plays a role in cell adhesion and activation. The primary ligands for CD48 are CD2 (LFA-2) and CD244 (2B4 antigen). The HM48-1 antibody is reported to block in vitro and in vivo CD48 mediated interactions.

## PREPARATION & STORAGE

This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation. It is recommended to store the product undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.

## APPLICATION NOTES

This antibody preparation has been quality-tested for flow cytometry using mouse spleen cells, or an appropriate cell type (where indicated). Please refer to the figure legend for the optimal concentration used to stain the tissue shown. We recommend titrating the antibody under your specific conditions to determine the optimal concentration of antibody needed in your experimental system.

## REFERENCES

Kato K, Koyanagi M, Okada H, et al. 1992. *J Exp Med.* 176(5):1241-1249. Qin L, Chavin KD, Lin J, Yagita H, Bromberg JS. 1994. *J Exp Med.* 179(1):341-346. Brown MH, Boles K, van der Merwe PA, Kumar V, Mathew PA, Barclay AN. 1998. *J Exp Med.* 188(11):2083-2090. Latchman Y, McKay PF, Reiser H. 1998. *J Immunol.*

Tonbo Biosciences tests all antibodies by flow cytometry. Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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