Anti-Mouse CD48 (SLAMF2) Antibody, Clone HM48-1, APC

Antibodies

Hamster (Armenian) monoclonal IgG1 antibody against mouse CD48 (SLAMF2), APC-conjugated

Catalog #60162AZ #60162AZ.1 100 μg25 μg0.2 mg/mL



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Product Description

The HM48-1 antibody reacts with mouse CD48, a 45 kDa GPI-anchored glycoprotein and a member of the signaling lymphocyte activation molecule (SLAM) family and Ig superfamily. SLAM family members play a role in multiple aspects of immune function including costimulation, cytotoxicity, and cytokine production. CD48 also plays a role in cell adhesion and T cell activation. In mice, CD48 is thought to be present on nearly all hematopoietic cells except neutrophils and ESLAM cells (CD45+EPCR+CD48-CD150+ hematopoietic stem cells with long-term self-renewal capacity). Ligands for CD48 include CD2 and CD244, binding of which helps to promote interactions between immune cells. HM48-1 is reported to be capable of blocking CD48:CD2 and CD48:CD244 interactions in vitro and in vivo. HM48-1 is also reported to inhibit the proliferative response of spleen cells to mitogens, inhibit CTL activity, and enhance the survival of cardiac allografts.

Target Antigen Name: CD48 (SLAMF2)

Alternative Names: B-cell membrane protein, BCM1, Blast, Blast-1, HM48, MEM-102, OX-45 (rat), Sgp-60

Gene ID: 12506 Species Reactivity: Mouse

Host Species: Hamster (Armenian)

Clonality: Monoclonal Clone: HM48-1

Isotype: IgG1, lambda3

Immunogen: Mouse T lymphoma MBL-2

Conjugate: APC

Applications

Verified: FC Reported: FC

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

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

Purification: The antibody was purified by affinity chromatography, and conjugated with APC under optimal conditions.

The solution is free of unconjugated APC and unconjugated antibody.

Stability and Storage: Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to

light. For product expiry date, please contact techsupport@stemcell.com.

Directions for Use: For flow cytometry the suggested use of this antibody is ≤ 0.25 µg per 1 x 10^6 cells in 100 µL volume. It is

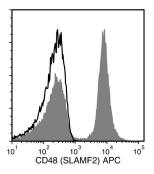
recommended that the antibody be titrated for optimal performance for each application.

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Data



Flow cytometry analysis of C57BL/6 mouse splenocytes labeled with Anti-Mouse CD48 (SLAMF2) Antibody, Clone HM48-1, APC (filled histogram) or an Armenian hamster IgG isotype control antibody, APC (solid line histogram).

Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References

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