

Product datasheet for **TA320283**

Cd48 Hamster Monoclonal Antibody [Clone ID: HM48-1]

Product data:

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| Product Type: | Primary Antibodies |
| Clone Name: | HM48-1 |
| Applications: | FC |
| Recommended Dilution: | Flow, IP, WB |
| Reactivity: | Mouse |
| Host: | Hamster |
| Clonality: | Monoclonal |
| Formulation: | Aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer |
| Concentration: | lot specific |
| Purification: | Affinity purified |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Gene Name: | CD48 antigen |
| Database Link: | NP_031675 Entrez Gene 12506 Mouse P18181 |



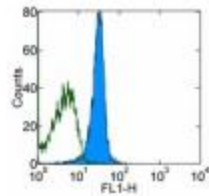
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Background:

The HM48-1 monoclonal antibody reacts with the mouse CD48 antigen; also known as BCM1, Blast-1 (human), and OX-45 (rat). CD48, a member of the SLAM family and Ig superfamily, is a 45 kDa GPI-linked glycoprotein expressed on the majority of hematopoietic cells. Recent publications have reported differential expression of members of the SLAM family including CD48, CD150, and CD244 among functionally distinct bone marrow hematopoietic progenitors providing a useful tool for prediction of the primitiveness of hematopoietic progenitors based on the expression of these SLAM family members. Hematopoietic stem cells (HSC) are highly purified as CD150(+)CD244(-)CD48(-) cells while non-self-renewing multipotent hematopoietic progenitors (MPP) are CD244(+)CD150(-)CD48(-) and the most restricted progenitors are CD48(+)CD244(+)CD150(-). CD48 plays a critical role in adhesion and T cell activation. In the mouse, the primary counter-receptors for CD48 are CD2 and CD244. HM48-1 is reported to modulate in vitro and in vivo CD48 functions including blocking the CD48/CD2 and CD48/CD244 interactions, inhibiting the proliferative response of mitogen-activated spleen cells, providing a costimulation signal for T cells activated in vitro through their TCR, and prolonging cardiac allograft survival in vivo.

Synonyms:

BCM1; BLAST; BLAST1; hCD48; mCD48; MEM-102; SLAMF2; TCT.1

Product images:

Staining of BALB/c splenocytes with 0.25 ug of Armenian Hamster IgG Isotype Control Purified (open histogram) or 0.25 ug of Anti-Mouse CD48 Purified (filled histogram) followed by Anti-Armenian Hamster IgG FITC. Total viable cells were used for analysis.