



Armenian Hamster Anti-Mouse CD48 Monoclonal antibody, clone HM48-1 (CABT-L4431)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	The HM48-1 monoclonal antibody reacts with mouse CD48 also known as BCM1, Blast-1 (human), and OX-45 (rat). CD48 is a 45 kDa GPI-anchored glycoprotein and a member of the SLAM family and Ig superfamily.
Target	Mouse CD48
Immunogen	MBL2 mouse T lymphoma cells
Isotype	IgG
Source/Host	Armenian Hamster
Species Reactivity	Mouse
Clone	HM48-1
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo CD48 blockade, in vitro CD48 blocking
Molecular Weight	150 kDa
Format	0.2 µM filtered liquid. Purified from tissue culture supernatant in an animal free facility
Concentration	Lot specific

Size	5 mg
Buffer	PBS, pH 7.0. Contains no stabilizers or preservatives. [low endotoxin azide-free] Endotoxin level: <2EU/mg (<0.002EU/µg). Determined by LAL gel clotting assay Related dilution buffer: CABT-LB04
Preservative	None
Storage	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	The HM48-1 monoclonal antibody reacts with mouse CD48 also known as BCM1, Blast-1 (human), and OX-45 (rat). CD48 is a 45 kDa GPI-anchored glycoprotein and a member of the SLAM family and Ig superfamily. CD48 is expressed on T and B lymphocytes as well as monocytes and macrophages. CD48 plays a critical role in adhesion and T cell activation. The primary ligands for CD48 are CD2 and CD244. The HM48-1 antibody is reported to block the CD48/CD2 and CD48/CD244 interactions in vivo as well as inhibit the proliferative response of mitogen-activated spleen cells, provide a co-stimulatory signal for activated T cells in vitro, and prolong cardiac allograft survival in vivo.
Keywords	CD48;CD48 antigen;BCM1;BLAST;Bcm-1;BLAST1;SLAMF2;Sgp-60;BLAST-1;MEM-102;AI449234;AW610730;HM48-1;BCM1 surface antigen;SLAM family member 2;MRC OX-45 surface antigen;signaling lymphocytic activation molecule 2;

GENE INFORMATION

Official Symbol	CD48 antigen
Synonyms	CD48; CD48 antigen; BCM1; BLAST; Bcm-1; BLAST1; SLAMF2; Sgp-60; BLAST-1; MEM-102; AI449234; AW610730; HM48-1; BCM1 surface antigen; SLAM family member 2; MRC OX-45 surface antigen; signaling lymphocytic activation molecule 2;
References	Jing, W., et al. (2015). "Combined immune checkpoint protein blockade and low dose whole body irradiation as immunotherapy for myeloma." <i>J Immunother Cancer</i> 3(1): 2. PubMed;