

Rabbit Anti-Human CD48 Molecule Monoclonal Antibody

Cat. No. CAB11502RH Lot. No. (See product label)

SPECIFICATION

Product Overview	Rabbit monoclonal antibody to human CD48 molecule.
Species	Human
Source	Rabbit
Antigen Description	CD48, also known as SLAMF2, BCM-1 and BLAST-1, is a 65 kDa GPI-linked protein belonging to the CD2 subfamily of immunoglobulin superfamily molecules. In rodents, CD48 is the ligand for CD2 whereas in humans, CD58 is the ligand for CD2. Human CD48 cDNA encodes a 243 aa precursor that includes a 26 aa signal sequence, a 194 aa mature protein that contains one Ig-like V-type domain and one Ig-like C2-type domain, and a 23 aa C-terminal propeptide. It has a high degree of sequence homology to CD58 (LFA-3), and human CD48 shares approximately 50% aa sequence identity with mouse and rat CD48. CD48 is expressed on most lineage-committed hematopoietic cells but not on hematopoietic stem cells or multipotent hematopoietic progenitors. CD48 performs biological functions in a variety of processes including adhesion, pathogen recognition, cellular activation, and cytokine regulation, and emerges as a critical effector molecule in immune responses.
Specificity	Human CD48 / SLAMF2. No cross-reactivity in ELISA with Mouse CD48, Human TNFRSF4.
Immunogen	Recombinant Human CD48 / SLAMF2 Protein
Isotype	Rabbit IgG

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Clone	010
Applications	Western Blot
Dilution	Western blot: This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect Human CD48 in WB. Using a DAB detection system, the detection limit for Human CD48 is approximately 2 ng/lane under non-reducing conditions and 1 ng/lane under reducing conditions.
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Human CD48 / SLAMF2.
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 °C to -70 °C. Preservative-Free.Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	CD48 CD48 molecule [Homo sapiens]
Official Symbol	CD48
Synonyms	CD48; CD48 molecule; BCM1,CD48 antigen (B cell membrane protein) ,CD48 molecule; CD48 antigen; BLAST; hCD48; mCD48; SLAMF2; TCT.1; BCM1 surface antigen; leukocyte antigen MEM-102; B-lymphocyte activation marker BLAST-1; CD48 antigen (B-cell membrane protein); BCM1; BLAST1; MEM-102;

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Gene ID	962
mRNA Refseq	NM_001256030
Protein Refseq	NP_001242959
MIM	109530
UniProt ID	P09326
Chromosome Location	1q21.3-q22
Pathway	Cell surface interactions at the vascular wall, organism-specific biosystem; Hemostasis, organism-specific biosystem; Natural killer cell mediated cytotoxicity, organism-specific biosystem; Natural killer cell mediated cytotoxicity, conserved biosystem;
Function	antigen binding; eukaryotic cell surface binding; protein binding; receptor activity;