

Recombinant Human CD48 Protein, Fc-tagged, Alexa Fluor 555 conjugated

Cat. No. CD48-252HAF555 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

A DNA sequence encoding the human CD48 (NP_001769.2) (Met1-Ser220) (Alexa Fluor 555 conjugated) was expressed with the Fc region of human IgG1 at the C-terminus.

Species

Human

Source

HEK293

ProteinLength

Met1-Ser220 432

Description

CD48, also known as SLAMF2, BCM-1 and BLAST-1, is a 65 kDa GPIlinked protein belonging to the CD2 subfamily of immunoglobulinsuperfamily 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 processes including adhesion, pathogen recognition, cellular activation, and cytokine regulation, and emerges as a critical effector molecule in immune responses.

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Form	Lyophilized
Molecular Mass	The recombinant human CD48/Fc comprises 432 amino acids and has a predicted molecular mass of 49.1 kDa. The apparent molecular mass of the protein is approximately 64.5 kDa in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU/ µg of the protein as determined by the LAL method.
Purity	> 90 % as determined by SDS-PAGE
Characteristic	Disulfide-linked homodimer Labeled with Alexa Fluor 555 via amines With an excitation and emission maximum of 555/565 nm, Alexa Fluor 555 can be efficiently excited using a 543 nm He-Ne laser line and detected under standard TRITC/Cy3 filters.
Stability	Samples are stable for up to 12 months from date of receipt at -70 centigrade.
Storage	Store it under sterile conditions at -70 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Lyophilized from sterile PBS, pH7.4.
Conjugation	Alexa Fluor 555

GENE INFORMATION

Gene Name	CD48 CD48 molecule [Homo sapiens]
Official Symbol	CD48

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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;
Gene ID	962
mRNA Refseq	NM_001256030
Protein Refseq	NP_001242959
MIM	109530
UniProt ID	P09326

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