

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

Cat. No. CD48-654HAF555 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Alexa Fluor 555 conjugated recombinant human CD48 (Gln27-Ser220) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	Gln27-Ser220
Description	CD48 antigen is also known as Signaling lymphocytic activation molecule 2, SLAM family member 2 (SLAMF2), Leukocyte antigen MEM-102, BCM1 surface antigen, B-lymphocyte activation marker BLAST-1. CD48 is a 65 kDa GPI-linked protein which belongs to the CD2 subfamily of immunoglobulin superfamily molecules. CD48 antigen contains two Ig-like C2-type (immunoglobulin-like) domains and two Ig-like V-type (immunoglobulin-like) domain. CD48 interacts with CD244 in an heterophilic manner. CD48 is ligand for CD2. CD48 might facilitate interaction between activated lymphocytes. CD48 is probably involved in regulating T-cell activation.
Form	Lyophilized
Molecular Mass	The protein has a calculated MW of 23.2 kDa. The protein migrates as 35-45 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
N-terminal Sequence	Gln 27

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Analysis	
Endotoxin	< 1.0 EU/ µg by the LAL method.
Purity	> 95 % 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.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.
Conjugation	Alexa Fluor 555
GENE INFORMATION	
Gene Name	CD48

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

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