

# Active Recombinant Mouse CD48 Protein, His-tagged, Alexa Fluor 488 conjugated

**Cat. No.** CD48-867MAF488    **Lot. No.** (See product label)

## SPECIFICATION

|                                     |   |
|-------------------------------------|---|
| <b>Product Overview</b>             | Alexa Fluor 488 conjugated recombinant mouse CD48 (NP_031675.1) without the propeptide, corresponding to the amino acids (Met 1-Arg 216) was expressed with a C-terminal polyhistidine tag.   |
| <b>Species</b>                      | Mouse   |
| <b>Source</b>                       | HEK293  |
| <b>ProteinLength</b>                | 205   |
| <b>Form</b>                         | Lyophilized   |
| <b>Bio-activity</b>                 | <ol style="list-style-type: none"> <li>1. Measured by its ability to bind human 2B4 in a functional ELISA.</li> <li>2. Measured by its ability to bind biotinylated recombinant mouse CD2 in a functional ELISA.</li> </ol>   |
| <b>Molecular Mass</b>               | The secreted recombinant mouse CD48 consists of 205 amino acids and has a calculated molecular mass of 23.7 kDa. As a result of glycosylation, the apparent molecular mass of the recombinant protein is approximately 45-60 kDa in SDS-PAGE under reducing conditions. |
| <b>N-terminal Sequence Analysis</b> | Phe 23  |

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|                       |   |
|-----------------------|---|
| <b>Endotoxin</b>      | < 1.0 EU/ µg of the protein as determined by the LAL method.  |
| <b>Purity</b>         | > 85 % as determined by SDS-PAGE  |
| <b>Characteristic</b> | Disulfide-linked homodimer<br>Labeled with Alexa Fluor 488 via amines<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm   |
| <b>Stability</b>      | Samples are stable for up to 12 months from date of receipt at -70 centigrade.  |
| <b>Storage</b>        | Store it under sterile conditions at -20 to-70 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.                      |
| <b>Storage Buffer</b> | Lyophilized from sterile PBS, pH 7.4, 5%-8% trehalose and mannitol.   |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents. |
| <b>Conjugation</b>    | Alexa Fluor 488   |

## GENE INFORMATION

|                        |  |
|------------------------|--|
| <b>Gene Name</b>       | Cd48 CD48 antigen [ <i>Mus musculus</i> ]  |
| <b>Official Symbol</b> | CD48   |
| <b>Synonyms</b>        | CD48; CD48 antigen; HM48-1; BCM1 surface antigen; MRC OX-45 surface antigen; BCM1; BLAST; Bcm-1; BLAST1; SLAMF2; Sgp-60; BLAST-1; MEM-102; AI449234; AW610730; |

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|                |           |
|----------------|-----------|
| Gene ID        | 12506     |
| mRNA Refseq    | NM_007649 |
| Protein Refseq | NP_031675 |

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