

# Recombinant Canine CD40 Protein, Fc-tagged, Alexa Fluor 488 conjugated

**Cat. No.** CD40-167CAF488    **Lot. No.** (See product label)

## SPECIFICATION

|                                     |                                                                                                                                                                                                                                                                |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>             | Alexa Fluor 488 conjugated recombinant Canine CD40 (Q7YRL5) (Met1-Ala194), fused with the Fc region of human IgG1 at the C-terminus, was produced in Human Cells.                                                                                              |
| <b>Species</b>                      | Dog                                                                                                                                                                                                                                                            |
| <b>Source</b>                       | HEK293                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>                | 415                                                                                                                                                                                                                                                            |
| <b>Form</b>                         | Lyophilized                                                                                                                                                                                                                                                    |
| <b>Molecular Mass</b>               | The recombinant canine CD40/Fc is a disulfide-linked homodimer. The reduced monomer comprises 415 amino acids and has a predicted molecular mass of 46.1 kDa. The apparent molecular mass of the protein is approximately 50-56 kDa in SDS-PAGE under reducing |
| <b>N-terminal Sequence Analysis</b> | Glu 21                                                                                                                                                                                                                                                         |
| <b>Endotoxin</b>                    | < 1.0 EU/ µg of the protein as determined by the LAL method.                                                                                                                                                                                                   |
| <b>Purity</b>                       | > 95 % as determined by SDS-PAGE                                                                                                                                                                                                                               |

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|                       |                                                                                                                                                                           |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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. Normally 5%-8% trehalose and mannitol are added as protectants before lyophilization.                                               |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution. 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>       | CD40 centigrade D40 molecule, TNF receptor superfamily member 5 [ centigrade anis lupus familiaris(dog) ] |
| <b>Official Symbol</b> | CD40                                                                                                      |
| <b>Gene ID</b>         | 403469                                                                                                    |
| <b>mRNA Refseq</b>     | NM_001002982                                                                                              |
| <b>Protein Refseq</b>  | NP_001002982                                                                                              |

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UniProt ID

Q7YRL5

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