

# Recombinant Canine CD40 Protein, His-tagged, Alexa Fluor 555 conjugated

**Cat. No.** CD40-165CAF555    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | A DNA sequence encoding the canine CD40 (Q7YRL5) (Met1-Ala194) (Alexa Fluor 555 conjugated) was expressed with a C-terminal polyhistidine tag.                                                                                                            |
| <b>Species</b>          | Dog                                                                                                                                                                                                                                                       |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | Met1-Ala194, 185                                                                                                                                                                                                                                          |
| <b>Form</b>             | Lyophilized                                                                                                                                                                                                                                               |
| <b>Molecular Mass</b>   | The recombinant canine CD40 comprises 185 amino acids and has a predicted molecular mass of 20.5 kDa. The apparent molecular mass of the protein is approximately 33 kDa in SDS-PAGE under reducing conditions due to glycosylation.                      |
| <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                                                                                                                                                                                                                          |
| <b>Characteristic</b>   | Disulfide-linked homodimer<br>Labeled with Alexa Fluor 555 via amines<br>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. |

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|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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 -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, pH7.4.                                                                                                                         |
| <b>Conjugation</b>    | Alexa Fluor 555                                                                                                                                              |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                            |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CD40 CD40 molecule, TNF receptor superfamily member 5 [ <i>Canis lupus familiaris</i> ]                                                                                                                                                                                    |
| <b>Official Symbol</b> | CD40                                                                                                                                                                                                                                                                       |
| <b>Synonyms</b>        | CD40; CD40 molecule, TNF receptor superfamily member 5; tumor necrosis factor receptor superfamily member 5; CD40L receptor; B-cell surface antigen CD40; CD40 antigen (TNF receptor superfamily member 5); tumor necrosis factor receptor superfamily, member 5; TNFRSF5; |
| <b>Gene ID</b>         | 403469                                                                                                                                                                                                                                                                     |
| <b>mRNA Refseq</b>     | NM_001002982                                                                                                                                                                                                                                                               |
| <b>Protein Refseq</b>  | NP_001002982                                                                                                                                                                                                                                                               |

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