

# Active Recombinant Canine CA9 Protein, His-tagged, Alexa Fluor 555 conjugated

**Cat. No.** CA9-1039CAF555    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Alexa Fluor 555 conjugated recombinant canine CA9 (NP_001138646.1) (Met1-Leu410) was expressed with a C-terminal polyhistidine tag.
<b>Species</b>	Dog
<b>Source</b>	HEK293
<b>ProteinLength</b>	384
<b>Form</b>	Lyophilized
<b>Bio-activity</b>	Measured by its esterase activity. The specific activity is > 100 pmoles/min/ µg.
<b>Molecular Mass</b>	The recombinant canine CA9 comprises 384 amino acids and has a predicted molecular mass of 42.1 kDa. The apparent molecular mass of the protein is approximately 50 kDa in SDS-PAGE under reducing conditions due to glycosylation.
<b>N-terminal Sequence Analysis</b>	Gln 38
<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

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<b>Characteristic</b>	<p>Disulfide-linked homodimer</p> <p>Labeled with Alexa Fluor 555 via amines</p> <p>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.</p>
<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 555

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">CA9 carbonic anhydrase IX [ Canis lupus familiaris ]</a>
<b>Official Symbol</b>	<a href="#">CA9</a>
<b>Synonyms</b>	carbonic anhydrase 9;
<b>Gene ID</b>	<a href="#">611933</a>
<b>mRNA Refseq</b>	<a href="#">NM_001145174</a>

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Protein Refseq

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