

## Canine TNF- $\alpha$ Antibody Pair Set

|                    |                           |                     |       |
|--------------------|---------------------------|---------------------|-------|
| <b>Catalog No.</b> | E-KAB-0397                | <b>Applications</b> | ELISA |
| <b>Synonyms</b>    | DIF;TNF-alpha;TNFA;TNFSF2 |                     |       |

### Kit components & Storage

| Title  | Specifications      | Storage   |
|--|---------------------|---|
| Canine TNF- $\alpha$ Capture Antibody            | 1 vial, 100 $\mu$ g | Store at -20°C for one year.<br>Avoid freeze/thaw cycles. |
| Canine TNF- $\alpha$ Detection Antibody (Biotin) | 1 vial, 50 $\mu$ L  | Store at -20°C for one year.<br>Avoid freeze/thaw cycles. |

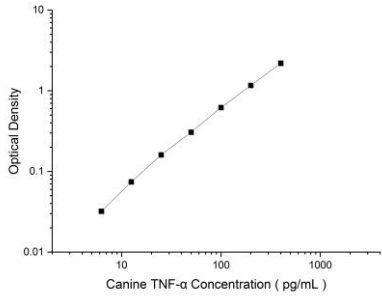
**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Product Information

| Items                 |               | Characteristic (E-KAB-0397)                      |   |
|-----------------------|---------------|--|---|
|                       |               | Canine TNF- $\alpha$ Capture Antibody            | Canine TNF- $\alpha$ Detection Antibody (Biotin)                        |
| Immunogen Information | Immunogen     | Recombinant Canine TNF- $\alpha$ protien         | Recombinant Canine TNF- $\alpha$ protien                                |
|                       | Swissprot     | CAA64403   |   |
| Product details       | Reactivity    | Canine   | Canine  |
|                       | Host          | Mouse  | Goat  |
|                       | Conjugation   | Unconjugated                                     | Biotin  |
|                       | Concentration | 0.5 mg/mL  | /   |
|                       | Buffer        | PBS with 0.04% Proclin 300; 50% glycerol; pH 7.5 | PBS with 0.04% Proclin 300; 1% protective protein; 50% glycerol; pH 7.5 |
|                       | Purify        | Protein A or G                                   | Antigen Affinity  |
|                       | Specificity   | Detects Canine TNF- $\alpha$ in ELISAs.          |   |

## Applications

### Canine TNF- $\alpha$ Sandwich ELISA Assay:

|                 | Recommended Concentration/Dilution | Reagent  | Images   |
|-----------------|------------------------------------|--|--|
| ELISA Capture   | 0.5-4 $\mu\text{g/mL}$             | Canine TNF- $\alpha$ Capture Antibody            |  |
| ELISA Detection | 1:1000-1:10000                     | Canine TNF- $\alpha$ Detection Antibody (Biotin) |  |

**Note:** This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

## Background

This gene encodes a multifunctional proinflammatory cytokine that belongs to the tumor necrosis factor (TNF) superfamily. This cytokine is mainly secreted by macrophages. It can bind to , and thus functions through its receptors TNFRSF1A/TNFR1 and TNFRSF1B/TNFR2. This cytokine is involved in the regulation of a wide spectrum of biological processes including cell proliferation , differentiation , apoptosis , lipid metabolism , and coagulation. This cytokine has been implicated in a variety of diseases , including autoimmune diseases , insulin resistance , and cancer. Knockout studies in mice also suggested the neuroprotective function of this cytokine.