

Canine TNF- α Antibody Pair Set

Catalog No. E-KAB-0397

Applications

ELISA

Synonyms DIF;TNF-alpha;TNFA;TNFSF2

Kit components & Storage

Title	Specifications	Storage
Canine TNF- α Capture Antibody	1 vial, 100 μ g	Store at -20°C for one year. Avoid freeze/thaw cycles.
Canine TNF- α Detection Antibody (Biotin)	1 vial, 50 μ L	Store at -20°C for one year. Avoid freeze/thaw cycles.

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

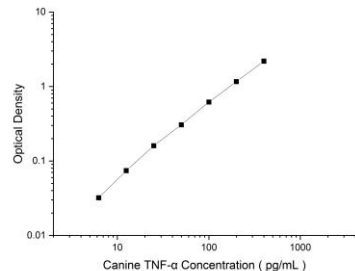
Product Information

Items		Characteristic (E-KAB-0397)	
		Canine TNF- α Capture Antibody	Canine TNF- α Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Canine TNF- α protien	Recombinant Canine TNF- α 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- α in ELISAs.	

For Research Use Only

Applications

Canine TNF- α Sandwich ELISA Assay

	Recommended Concentration/Dilution	Reagent	Images														
ELISA Capture	0.5-4 $\mu\text{g/mL}$	Canine TNF- α Capture Antibody	 <table><caption>Standard Curve Data (Estimated)</caption><thead><tr><th>Canine TNF-α Concentration (pg/mL)</th><th>Optical Density</th></tr></thead><tbody><tr><td>10</td><td>0.05</td></tr><tr><td>20</td><td>0.1</td></tr><tr><td>50</td><td>0.2</td></tr><tr><td>100</td><td>0.4</td></tr><tr><td>200</td><td>0.8</td></tr><tr><td>500</td><td>2.0</td></tr></tbody></table>	Canine TNF- α Concentration (pg/mL)	Optical Density	10	0.05	20	0.1	50	0.2	100	0.4	200	0.8	500	2.0
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ELISA Detection	1:1000-1:10000	Canine TNF- α 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.

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