

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

<b>Catalog No.</b>	E-KAB-0094	<b>Applications</b>	ELISA
<b>Synonyms</b>	DIF, TNF-alpha, TNFA, TNFSF2, TNF, TNFa		

### Kit components & Storage

Title	Specifications	Storage
Mouse TNF- $\alpha$ Capture Antibody	1 vial, 100 $\mu$ g	Store at -20°C for one year. Avoid freeze / thaw cycles.
Mouse TNF- $\alpha$ Detection Antibody (Biotin)	1 vial, 50 $\mu$ 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-0094)	
		Mouse TNF- $\alpha$ Capture Antibody	Mouse TNF- $\alpha$ Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Mouse TNF- $\alpha$ protein	Recombinant Mouse TNF- $\alpha$ protein
	Swissprot	P06804	
Product details	Reactivity	Mouse	Mouse
	Host	Goat	Goat
	Conjugation	Unconjugated	Biotin
	Concentration	0.5mg/mL	/
	Buffer	PBS with 0.04% Proclin 300, 50% glycerol, pH 7.4	PBS with 0.04% Proclin 300, 1% protective protein, 50% glycerol, pH 7.4
	Purify	Antigen Affinity	Antigen Affinity
	Specificity	Detects Mouse TNF- $\alpha$ in ELISAs.	

## Applications

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

	Recommended Concentration/Dilution	Reagent	Images										
ELISA Capture	0.5-4 $\mu$ g/mL	Mouse TNF- $\alpha$ Capture Antibody	<table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Mouse TNF-<math>\alpha</math> concentration (pg/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>0.05</td> </tr> <tr> <td>100</td> <td>0.2</td> </tr> <tr> <td>1000</td> <td>0.8</td> </tr> <tr> <td>10000</td> <td>3.0</td> </tr> </tbody> </table>	Mouse TNF- $\alpha$ concentration (pg/mL)	Optical Density	10	0.05	100	0.2	1000	0.8	10000	3.0
Mouse TNF- $\alpha$ concentration (pg/mL)	Optical Density												
10	0.05												
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ELISA Detection	1:1000-1:10000	Mouse 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. Members of this family are classified based on primary sequence, function, and structure. This protein is synthesized as a type-II transmembrane protein and is reported to be cleaved into products that exert distinct biological functions. It plays an important role in the innate immune response as well as regulating homeostasis but is also implicated in diseases of chronic inflammation. In mouse deficiency of this gene is associated with defects in response to bacterial infection, with defects in forming organized follicular dendritic cell networks and germinal centers, and with a lack of primary B cell follicles. Alternative splicing results in multiple transcript variants.