

## Rat CNTF Antibody Pair Set

**Catalog No.** E-KAB-0626

**Applications**

ELISA

**Synonyms** CNTF

### Kit components & Storage

Title	Specifications	Storage
Rat CNTF Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze/thaw cycles.
Rat CNTF Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze/thaw cycles.

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

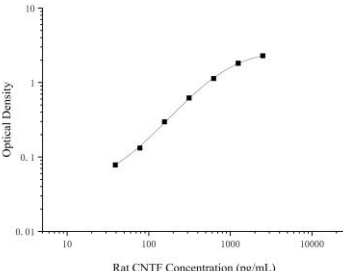
### Product Information

Items		Characteristic (E-KAB-0626)	
		Rat CNTF Capture Antibody	Rat CNTF Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Rat CNTF protien	Recombinant Rat CNTF protien
	Swissprot	P20294	
Product details	Reactivity	Rat	Rat
	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 Rat CNTF in ELISAs.	

### For Research Use Only

## Applications

### Rat CNTF Sandwich ELISA Assay

	Recommended Concentration/Dilution	Reagent	Images																		
ELISA Capture	0.5-4 µg/mL	Rat CNTF Capture Antibody	 <table><caption>Estimated data points from the standard curve</caption><thead><tr><th>Rat CNTF Concentration (pg/mL)</th><th>Optical Density</th></tr></thead><tbody><tr><td>50</td><td>0.08</td></tr><tr><td>100</td><td>0.15</td></tr><tr><td>200</td><td>0.30</td></tr><tr><td>500</td><td>0.80</td></tr><tr><td>1000</td><td>1.50</td></tr><tr><td>2000</td><td>2.50</td></tr><tr><td>5000</td><td>3.50</td></tr><tr><td>10000</td><td>4.50</td></tr></tbody></table>	Rat CNTF Concentration (pg/mL)	Optical Density	50	0.08	100	0.15	200	0.30	500	0.80	1000	1.50	2000	2.50	5000	3.50	10000	4.50
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ELISA Detection	1:1000-1:10000	Rat CNTF Detection Antibody (Biotin)																			

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

## Background

The protein encoded by this gene is a signal transducer shared by many cytokines , including interleukin 6 (IL6) , ciliary neurotrophic factor (CNTF) , leukemia inhibitory factor (LIF) , and oncostatin M (OSM) . This protein functions as a part of the cytokine receptor complex. The activation of this protein is dependent upon the binding of cytokines to their receptors. vIL6 , a protein related to IL6 and encoded by the Kaposi sarcoma-associated herpesvirus , can bypass the interleukin 6 receptor (IL6R) and directly activate this protein.

Knockout studies in mice suggest that this gene plays a critical role in regulating myocyte apoptosis.

Alternatively spliced transcript variants have been described. A related pseudogene has been identified on chromosome 17.

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