



Rat TNF-alpha ELISA Kit (2 plates)

Catalogue No.:	BEK-2101-2P
Description:	The rat TNF-alpha Kit is a sandwich ELISA. The capture antibody is a monoclonal rat TNF-alpha antibody pre-coated onto the 96-well strip plates provided in the kit. Rat test samples and standards of known TNF-alpha concentration are added to these wells and allowed to complex with the bound TNF-alpha antibody. A biotinylated rat TNF-alpha polyclonal antibody is then added. This detection antibody binds to the antigen thus completing the sandwich. After washing, an enzyme Avidin-Biotin-Peroxidase complex (ABC) is added which binds to the second antibody. The peroxidase substrate TMB is added to induce a coloured reaction product. The intensity of this coloured product is directly proportional to the concentration of TNF-alpha present in the samples. The purpose of this kit is the in-vitro quantitative determination of rat TNF-alpha in samples such as sera, plasma, tissue lysates and cell culture supernates. This kit has been configured for research use only and is not to be used in diagnostic or clinical procedures.
Batch No.:	See product labels
Antigen:	Tumor necrosis factor alpha (TNF-alpha) is a cytokine that belongs to the tumor necrosis factor (TNF) superfamily. TNF-alpha is mainly secreted by macrophages. TNF-alpha is involved in the regulation of many processes such as cell proliferation, differentiation and apoptosis and has been implicated in a variety of diseases including cancer. TNF-alpha is expressed as a single-pass type II membrane protein. A soluble, secreted form is derived from the membrane form by proteolytic processing.
Other Names:	TNF-alpha; Tumor necrosis factor ligand superfamily member 2; TNF-a; Cachectin; TNF; TNFA; TNFSF2;
Accession:	P16599 TNFA_RAT;
Specificity:	Rat TNF-alpha
Storage:	Store at 4°C
Kit components:	The ELISA kit box contains 2 x 96-well pre-coated strip plates, protein standards, detection reagents, substrate buffer and detailed protocols.
Range:	15.6 pg/ml - 1,000 pg/ml for body fluids, tissue lysates or cell culture supernates. 7.8 pg/ml - 500 pg/ml for rat sera.
Sensitivity:	< 1 pg/ml
Kit protocol:	Please refer to our online product listing for current protocol/MSDS versions.

FOR RESEARCH USE ONLY

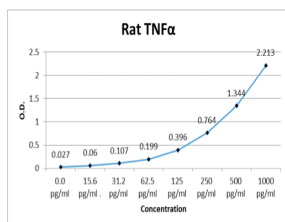


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IX: Typical Standard Curve (for reference only, not to be used for actual data)

Concentration pg/ml	0.0 pg/ml	15.6 pg/ml	31.2 pg/ml	62.5 pg/ml	125 pg/ml	250 pg/ml	500 pg/ml	1000 pg/ml
O.D.	0.027	0.060	0.107	0.199	0.396	0.784	1.344	2.213

Data obtained after TMB reaction of 25 minutes @ 37°C



This standard curve is for demonstration purposes only. A standard curve should be generated for each assay.

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