



Human TNF α /Cachectin/TNFSF2 ELISA Kit (2 plates)

Catalogue No.:	BEK-2100-2P
Description:	<p>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.</p> <p>The human TNF-alpha Kit is a sandwich ELISA. The capture antibody is a monoclonal human TNF-alpha antibody pre-coated onto the 96-well strip plates provided in the kit. Human 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 human 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 human TNF-alpha in samples such as sera, plasma, tissue lysates and cell culture supernates. TFor quantitative detection of human TNFα in cell culture supernatants, serum, and heparin, EDTA or citrate treated plasma samples only when used as directed. This kit has been configured for research use only and is not to be used in diagnostic or clinical procedures.</p>
Batch No.:	See product labels
Antigen:	The standard used in this human TNF alpha kit was also used as the antigen for the antibodies. It is a recombinant human protein fragment expressed in e. coli and purified. The exact sequence maps to the soluble form of TNF alpha, amino acids 77-233.
Sequence:	<p>>sp P01375 77-233</p> <p>VRSSSRTPSDKPVAVHVVANPQAEGQLQWLNRRANALLANGVELRDNQLVVPSEGLYLIYS QVLFKGGQCPSTHVLLTHTISRIAVSYQTKVNLLSAIKSPCQRETPEGAEAKPWYEPYIL GGVFQLEKGDRLSAEINRPDYLDFAESGQVYFGIIAL</p>
Other Names:	TNF-alpha; Tumor necrosis factor ligand superfamily member 2; TNF-a; Cachectin; TNF; TNFA; TNFSF2;
Accession:	P01375 TNFA_HUMAN;
Specificity:	Human 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 human sera.
Sensitivity:	< 1 pg/ml

FOR RESEARCH USE ONLY



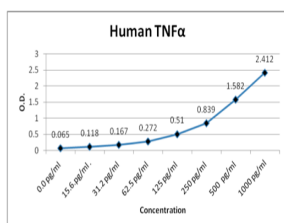
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Kit protocol: Please refer to our online product listing for current protocol/MSDS versions.

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

Concentration pg/ml	0.0	15.6	31.2	62.5	125	250	500	1000
O.D.	0.065	0.118	0.167	0.272	0.510	0.839	1.582	2.412

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



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