abcam

Product datasheet

Human TNF alpha ELISA Kit ab108908

1 Image

Overview

Product name	Human TNF alpha ELISA Kit				
Detection method	Colorimetric				
Precision					Intra-assay
	Sample	n	Mean	SD	CV%
	Overall				5.5%
					Inter-assay
	Sample	n	Mean	SD	CV%
	Overall				10.7%
Sample type	Serum, Plasma				
Assay type	Sandwich (quantitative)				
Sensitivity	= 0.038 ng/ml				
Range	0.063 ng/ml - 1 ng/ml				
Recovery	96 %				
Assay time	5h 00m				
Assay duration	Multiple steps standard assay				
Species reactivity	Reacts with: Human				
	Predicted to work with: F Rabbit, Cow	Rat, Horse,	Dog, Pig, Monkey 🥤	📤 Does not re	eact with: Mouse,
Product overview	Abcam's TNF alpha Human <i>in vitro</i> ELISA (Enzyme-Linked Immunosorbent Assay) kit is designed for the quantitative measurement of TNF alpha concentrations in Human cell culture supernatants, serum and plasma.				
	A TNF alpha specific antib test samples are added to antibody is added and ther Conjugate is added and ur used to visualize Streptavio	the wells an followed b nbound conj	d subsequently a TNF y washing with wash b ugates are washed av	alpha specific uffer. Streptavid vay with wash bu	biotinylated detection lin-Peroxidase uffer. TMB is then

Peroxidase to produce a blue color product that changes into yellow after adding acidic stop solution. The density of yellow coloration is directly proportional to the amount of TNF alpha captured in plate. This assay recognizes both natural and recombinant Human TNF alpha.

Get results in 90 minutes with Human TNF alpha ELISA Kit (<u>ab181421</u>) from our SimpleStep ELISA[®] range.

The entire kit may be stored at -20°C for long term storage before reconstitution - Avoid repeated freeze-thaw cycles.

Platform

Microplate

Properties

 Storage instructions
 Store at -20°C. Please refer to protocols.

Components	1 x 96 tests
100X Streptavidin-Peroxidase Conjugate	1 x 80µl
10X Diluent N Concentrate	1 x 30ml
1X Standard Diluent	1 x 2ml
20X Wash Buffer Concentrate	2 x 30ml
30X Biotinylated Human TNF alpha Antibody	1 x 180µl
Chromogen Substrate	1 x 7ml
Sealing Tapes	1 x 3 units
Stop Solution	1 x 11ml
TNF alpha Microplate (12 x 8 well strips)	1 unit
TNF alpha Standard	1 x 2 vials

Function

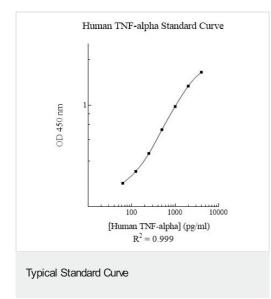
Cytokine that binds to TNFRSF1A/TNFR1 and TNFRSF1B/TNFBR. It is mainly secreted by macrophages and can induce cell death of certain tumor cell lines. It is potent pyrogen causing fever by direct action or by stimulation of interleukin-1 secretion and is implicated in the induction of cachexia, Under certain conditions it can stimulate cell proliferation and induce cell differentiation.

Involvement in disease

Genetic variations in TNF are a cause of susceptibility psoriatic arthritis (PSORAS) [MIM:607507]. PSORAS is an inflammatory, seronegative arthritis associated with psoriasis. It is a heterogeneous disorder ranging from a mild, non-destructive disease to a severe, progressive, erosive arthropathy. Five types of psoriatic arthritis have been defined: asymmetrical oligoarthritis characterized by primary involvement of the small joints of the fingers or toes; asymmetrical arthritis which involves the joints of the extremities; symmetrical polyarthritis characterized by a rheumatoidlike pattern that can involve hands, wrists, ankles, and feet; arthritis mutilans, which is a rare but deforming and destructive condition; arthritis of the sacroiliac joints and spine (psoriatic

	spondylitis).
Sequence similarities	Belongs to the tumor necrosis factor family.
Post-translational	The soluble form derives from the membrane form by proteolytic processing.
modifications	The membrane form, but not the soluble form, is phosphorylated on serine residues.
	Dephosphorylation of the membrane form occurs by binding to soluble TNFRSF1A/TNFR1.
	O-glycosylated; glycans contain galactose, N-acetylgalactosamine and N-acetylneuraminic acid.
Cellular localization	Secreted and Cell membrane.

Images



Representative Standard Curve using ab108908.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- · Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <u>https://www.abcam.com/abpromise</u> or contact our technical team.

Terms and conditions

· Guarantee only valid for products bought direct from Abcam or one of our authorized distributors