abcam

Product datasheet

Rat TNF alpha ELISA Kit ab46070

★★★★☆ 1 Abreviews　　96 References　　3 图像

概述

产品名称	大鼠TNF alpha ELISA试剂盒
检测方法	Colorimetric
精确度	

批次内

样品	n	Mean	SD	CV%
A	12	543.5pg/ml	44.7	8.2%
B	10	130.1pg/ml	10.3	7.9%

批次间

样品	n	Mean	SD	CV%
A	9	541.4pg/ml	33.2	6.1%
B	9	149.4pg/ml	9.8	6.5%

样品类型	Cell culture supernatant, Serum
检测类型	Sandwich (quantitative)
灵敏度	< 15 pg/ml
范围	31.25 pg/ml - 1000 pg/ml
检测时间	3h 45m
实验步骤	Multiple steps standard assay
种属反应性	与反应: Rat
产品概述	Abcam's TNF alpha Rat *in vitro* ELISA (Enzyme-Linked Immunosorbent Assay) kit is designed for the quantitative measurement of Rat TNF alpha in cell culture supernatants, serum and plasma samples.

A monoclonal antibody specific for TNF alpha has been coated onto the wells of the microtiter strips provided. Samples, including standards of known TNF alpha concentrations, control specimens or unknowns are pipetted into these wells. During the first incubation, the standards or samples and a biotinylated monoclonal antibody specific for TNF alpha are simultaneously incubated. After washing, the enzyme Streptavidin-HRP, that binds the biotinylated antibody is

added, incubated and washed. A TMB substrate solution is added which acts on the bound enzyme to induce a colored reaction product. The intensity of this colored product is directly proportional to the concentration of TNF alpha present in the samples.

This kit will recognize both endogenous and recombinant rat TNF alpha

平台   Microplate

性能

存放说明   Store at +4°C. Please refer to protocols.

组件	标识符	2 x 96 tests	1 x 96 tests	1 x 96 tests
10X Standard Diluent Buffer	Black	1 x 25ml	1 x 15ml	1 x 15ml
200X Wash Buffer	White	2 x 10ml	1 x 10ml	1 x 10ml
Biotinylated Antibody Diluent	Red	1 x 13ml	1 x 7.5ml	1 x 7.5ml
Biotinylated anti-TNF alpha	Red	2 x 400µl	1 x 400µl	1 x 400µl
Chromogen TMB Substrate Solution		1 x 24ml	1 x 11ml	1 x 11ml
HRP Diluent	Red	1 x 23ml	1 x 12ml	1 x 12ml
Plastic Plate Covers		4 units	2 units	2 units
Stop Reagent	Black	2 x 11ml	1 x 11ml	1 x 11ml
Streptavidin-HRP		4 x 5µl	2 x 5µl	2 x 5µl
TNF alpha Microplate (12 x 8 well strips)		2 units	1 unit	1 unit
TNF alpha Standard (Lyophilized)	Yellow	4 vials	2 vials	2 vials

功能   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.

疾病相关   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).
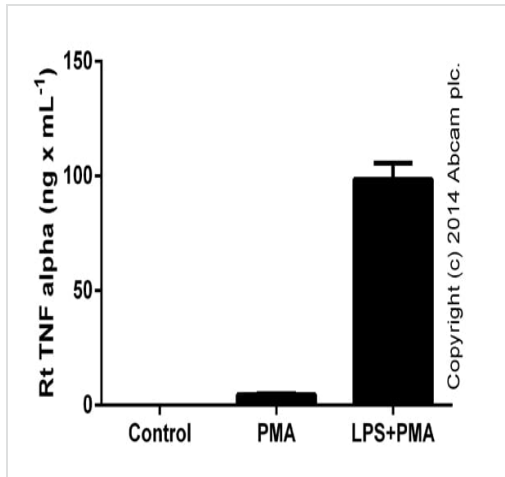
序列相似性   Belongs to the tumor necrosis factor family.

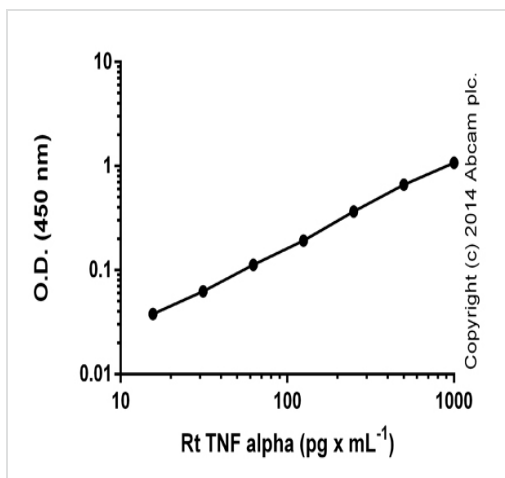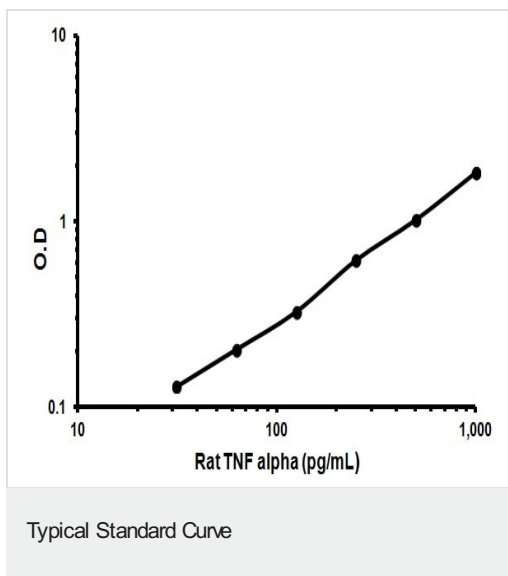| 翻译后修饰	The soluble form derives from the membrane form by proteolytic processing.
	The membrane form, but not the soluble form, is phosphorylated on serine residues.
	Dephosphorylation of the membrane form occurs by binding to soluble TNFRSF1A/TNFR1.
	O-glycosylated; glycans contain galactose, N-acetylgalactosamine and N-acetylneuraminic acid.
细胞定位	Secreted and Cell membrane.

图片

Rat TNF alpha measured in culture supernatants (dilution range 1/1-1/200) from control NR8383 cells or cells stimulated for 24 hours with 50 ng x mL^{-1} of PMA ((PMA) **ab120297**) or PMA with the addition of 1 ug x mL^{-1} of LPS (Sigma) (LPS+PMA) for the last 6 hours (duplicates +/- SD).

ELISA: TNF alpha Rat ELISA Kit (ab46070)

Standard curve with background signal subtracted (duplicates; +/- SD).

ELISA: TNF alpha Rat ELISA Kit (ab46070)

Representative Standard Curve using ab46070

Typical Standard Curve

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