

Product datasheet

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ARG80241 Rat TNF alpha ELISA Kit

Package: 96 wells Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG80241-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG80241-002	Standard (Lyophilized)	3 X 3.2 ng/vial	4°C
ARG80241-003	Standard diluent buffer	20 ml	4°C
ARG80241-004	Antibody conjugate concentrate	400 μΙ	4°C
ARG80241-005	Antibody diluent buffer	16 ml	4°C
ARG80241-006	HRP-Streptavidin concentrate	400 μΙ	4°C (Protect from light)
ARG80241-007	HRP-Streptavidin diluent buffer	16 ml	4°C
ARG80241-008	20X Wash buffer	50 ml	4°C
ARG80241-009	TMB substrate	12 ml	4°C (Protect from light)
ARG80241-010	STOP solution	12 ml	4°C
ARG80241-011	Plate sealer	4 strips	Room temperature

Summary

Product DescriptionARG80241 Rat TNF alpha ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat TNF alpha in Serum, Plasma, Cell culture supernatants.Tested ReactivityRatTested ApplicationELISASpecificityNo significant cross-reactivity or interference with Human TNF- alpha,TNF- beta®porcine TNF- alphaTarget NameTNF alphaConjugationHRPConjugation NoteSubstrate: TMB and read at 450 nmSensitivity30 pg/mlSample TypeSerum, Plasma, Cell culture supernatantsStandard Range62.5 - 4000 pg/mlSample Volume100 µl		
Tested Application ELISA Specificity No significant cross-reactivity or interference with Human TNF- alpha, TNF- beta®porcine TNF- alpha Target Name TNF alpha Conjugation HRP Conjugation Note Substrate: TMB and read at 450 nm Sensitivity 30 pg/ml Sample Type Serum, Plasma, Cell culture supernatants Standard Range 62.5 - 4000 pg/ml	Product Description	
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Target Name Conjugation HRP Conjugation Note Substrate: TMB and read at 450 nm Sensitivity 30 pg/ml Sample Type Serum, Plasma, Cell culture supernatants Standard Range 62.5 - 4000 pg/ml	Tested Application	ELISA
Conjugation HRP Conjugation Note Substrate: TMB and read at 450 nm Sensitivity 30 pg/ml Sample Type Serum, Plasma, Cell culture supernatants Standard Range 62.5 - 4000 pg/ml	Specificity	No significant cross-reactivity or interference with Human TNF- alpha, TNF- beta porcine TNF- alpha
Conjugation Note Substrate: TMB and read at 450 nm Sensitivity 30 pg/ml Sample Type Serum, Plasma, Cell culture supernatants Standard Range 62.5 - 4000 pg/ml	Target Name	TNF alpha
Sensitivity 30 pg/ml Sample Type Serum, Plasma, Cell culture supernatants Standard Range 62.5 - 4000 pg/ml	Conjugation	HRP
Sample Type Serum, Plasma, Cell culture supernatants Standard Range 62.5 - 4000 pg/ml	Conjugation Note	Substrate: TMB and read at 450 nm
Standard Range 62.5 - 4000 pg/ml	Sensitivity	30 pg/ml
	Sample Type	Serum, Plasma, Cell culture supernatants
Sample Volume 100μ l	Standard Range	62.5 - 4000 pg/ml
	Sample Volume	100 μΙ

Precision CV: less than 10%

Alternate Names Tumor necrosis factor ligand superfamily member 2; DIF; Cachectin; ICD2; ICD1; N-terminal fragment;

TNF-a; TNFA; TNFSF2; TNF-alpha; Tumor necrosis factor; NTF

Application Instructions

Assay Time

4 hours

Properties

Form

96 well

Storage instruction

Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual

for detail temperatures of the components.

Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links

GeneID: 24835 Rat

Swiss-port # P16599 Rat

Gene Symbol

LOC103694380

Gene Full Name

tumor necrosis factor

Background

Tumor Necrosis Factor Alpha (TNF alpha) is a protein secreted by lipopolysaccharide stimulated macrophages, and causes tumor necrosis when injected into tumor bearing mice. TNF alpha is believed to mediate pathogenic shock and tissue injury associated with endotoxemia. TNF alpha exists as a multimer of two, three, or five noncovalently linked units, but shows a single 17 kDa band following SDS PAGE under non reducing conditions. TNF alpha is closely related to the 25 kDa protein Tumor Necrosis Factor beta (lymphotoxin), sharing the same receptors and cellular actions. TNF alpha causes cytolysis or cytostasis of certain transformed cells, being synergistic with interferon gamma in its cytotoxicity. Although it has little effect on many cultured normal human cells, TNF alpha appears to be directly toxic to vascular endothelial cells. Other actions of TNF alpha include stimulating growth of human fibroblasts and other cell lines, activating polymorphonuclear neutrophils and osteoclasts, and induction of interleukin 1, prostaglandin E2 and collagenase production. TNF alpha is currently being evaluated in treatment of certain cancers and AIDS Related Complex.

Highlight

Related products:

TNF alpha antibodies; TNF alpha ELISA Kits; TNF alpha Duos / Panels; TNF alpha recombinant

<u>proteins;</u> Related news:

HMGB1 in inflammation
Inflammatory Cytokines
New ELISA data calculation tool:

Simplify the ELISA analysis by GainData

Research Area

Cancer kit; Cell Biology and Cellular Response kit; Immune System kit; Metabolism kit; Signaling

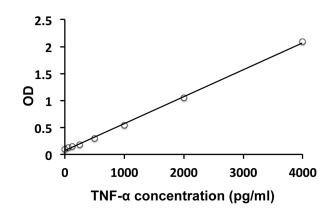
Transduction kit

PTM

The soluble form derives from the membrane form by proteolytic processing. The membrane-bound form is further proteolytically processed by SPPL2A or SPPL2B through regulated intramembrane proteolysis producing TNF intracellular domains (ICD1 and ICD2) released in the cytosol and TNF C-

domain 1 and C-domain 2 secreted into the extracellular space.

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.



ARG80241 Rat TNF alpha ELISA Kit standard curve image

ARG80241 Rat TNF alpha ELISA Kit results of a typical standard run with optical density reading at 450 nm.