



Pig Tumor necrosis factor (TNF/TNFA/TNFSF2) ELISA kit

Product Code	CSB-E16980p
Abbreviation	TNF
Protein Biological Process 1	Cytokine
Target Name	Tumor necrosis factor (TNF/TNFA/TNFSF2)
Uniprot No.	P23563
Alias	DADB-70P7.1, DIF, TNF-alpha, TNFA, TNFSF2, APC1 protein TNF superfamily, member 2 TNF, macrophage-derived TNF, monocyte-derived cachectin tumor necrosis factor alpha
Product Type	ELISA Kit
Immunogen Species	Sus scrofa (Pig)
Sample Types	serum, plasma, cell culture supernates, tissue homogenates
Detection Range	0.047 ng/mL-3 ng/mL
Sensitivity	0.040 ng/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Immunology
Gene Names	TNF
Tag Info	quantitative
Protein Description	Sandwich

Description

This Pig TNF ELISA Kit was designed for the quantitative measurement of Pig TNF protein in serum, plasma, cell culture supernates, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.047 ng/mL-3 ng/mL and the sensitivity is 0.040 ng/mL.

Target Details

This gene encodes a multifunctional proinflammatory cytokine that belongs to the tumor necrosis factor (TNF) superfamily. This cytokine is mainly secreted by macrophages. It can bind to, and thus functions through its receptors TNFRSF1A/TNFR1 and TNFRSF1B/TNFR. This cytokine is involved in the regulation of a wide spectrum of biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. This cytokine has



been implicated in a variety of diseases, including autoimmune diseases, insulin resistance, and cancer. Knockout studies in mice also suggested the neuroprotective function of this cytokine.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

	Intra-Assay Precision			Inter-Assay Precision		
Sample	1	2	3	1	2	3
n	20	20	20	20	20	20
Mean (ng/ml)	0.383	0.391	0.387	0.394	0.391	0.388
SD	0.020	0.022	0.021	0.042	0.039	0.041
CV(%)	3.350	3.595	3.477	6.807	6.383	6.766

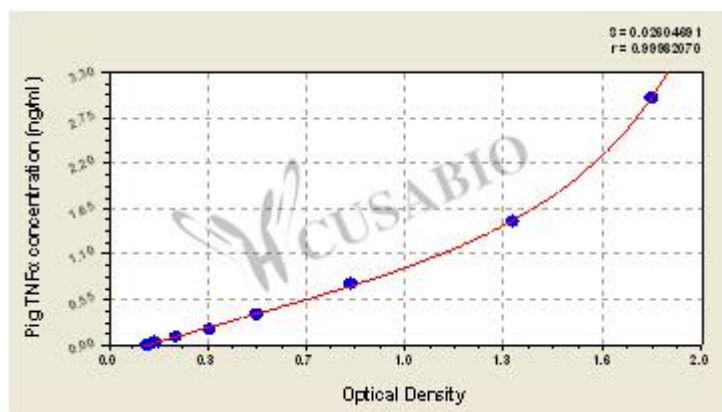
Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of pig TNFA in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

	Sample	Serum (n=4)
1:1	Average %	83
	Range %	80-95
1:2	Average %	86
	Range %	82-99
1:4	Average %	93
	Range %	85-103
1:8	Average %	94
	Range %	90-104

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



ng/ml	OD1	OD2	Average	corrected
0	0.131	0.145	0.138	
0.047	0.159	0.170	0.165	0.027
0.094	0.223	0.249	0.236	0.099
0.188	0.327	0.363	0.345	0.208
0.375	0.527	0.479	0.503	0.366
0.75	0.782	0.848	0.815	0.678
1.5	1.373	1.328	1.351	1.213
3	1.810	1.810	1.810	1.673

Msds

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