

Human Anti-TNF-alpha autoantibody (TNFA-Ab) ELISA Kit

Catalog No: #EK11778

Package Size: #EK11778-1 48T #EK11778-2 96T

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

Product Name	Human Anti-TNF-alpha autoantibody (TNFA-Ab) ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:15.6-1000 pg/mL

Sensitivity:6.1 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:Competitive ELISA
Test principle:This assay employs the competitive enzyme immunoassay technique. The microtiter plate provided in this kit has been pre-coated with an antibody specific to TNFA-Ab. Standards or samples are then added to the appropriate microtiter plate wells with a Horseradish Peroxidase (HRP)-conjugated TNFA-Ab and incubated. The competitive inhibition reaction is launched between with HRP labeled TNFA-Ab and unlabeled TNFA-Ab with the antibody. A substrate solution is added to the wells and the color develops in opposite to the amount of TNFA-Ab in the sample. The color development is stopped and the intensity of the color is measured.

Product Overview:TNFA? is synthesized as a 26 kDa, type II transmembrane protein that is 233 amino acids in length. It contains a 30 amino acid (aa) cytoplasmic domain, a 26 aa transmembrane segment, and a 177 aa extracellular region. TNFa is assembled intracellularly to form a transmembrane, non-covalently-linked homotrimeric protein. The 157 aa residue soluble form of TNFa (sTNF-α) is released from the C-terminus of the transmembrane protein through the activity of TNFa-converting enzyme (TACE), a membrane -bound disintegrin metalloproteinase. Rat cells known to express TNF-α include B cells, colonic columnar epithelial cells, NK and CD3 CD56 hepatic natural T cells, macrophages, monocytes and monocyte-derived dendritic cells, CD4 and CD8 T cells, mast cells, neutrophils, keratinocytes, plasma cells, and adipocytes.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.