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Datasheet for ABIN2862659 Etanercept Antibody ELISA Kit

3 Images



Overview

Quantity:	96 tests
Target:	Etanercept Antibody
Binding Specificity:	Free Chain
Reactivity:	Chemical, Human
Method Type:	Sandwich ELISA
Application:	ELISA

Product Details

Purpose:	Enzyme immunoassay for the semi-quantitative determination of free antibodies to Etanercept in human serum and plasma samples.
Brand:	ImmunoGuide®
Sample Type:	Serum, Plasma (EDTA - heparin)
Analytical Method:	Semi-Quantitative
Detection Method:	Colorimetric
Specificity:	Free antibodies against Etanercept (Enbrel®) Because of our special assay design this Antibody to Etanercept ELISA kit provides the advantage of limiting the potential false positive reactions that are related with the presence of RF in serum/plasma samples. A screening test was performed with 64 different native human sera. All samples showed OD450 nm values (ranged from 0.046 to 0.073) less than the mean OD of cut-off controls. This test system measures the concentration of free antibodies directed against Infliximab. It cannot detect these antibodies if the drug already is bound to it.

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Product Details

Sensitivity:	10 ng/mL
Characteristics:	This test does not measure the antibodies if they already are bound to the drug Etanercept.
Components:	 1 x 12 x 8 Microtiter Plate Break apart strips pre-coated with the drug Etanercept. 1 x 0.5 mL Negative Control Ready to use. Contains human serum and <15mM NaN3. 1 x 0.5 mL Cut-off Control Ready to use. Contains human serum and antibody to Etanercept at 3 AU/mL and <15 mM NaN3. 1 x 0.5 mL Positive Control Ready to use. Contains human serum and antibody to Etanercept and <15 mM NaN3. 1 x 12 mL Assay Buffer Blue colored. Ready to use. Contains human serum, proteins and <15 mM NaN3. 1 x 12 mL Assay Buffer Blue colored. Ready to use. Contains human serum, proteins and <15 mM NaN3. 1 x 12 mL Enzyme Conjugate Red colored. Ready to use. Contains horseradish peroxidase(HRP)- conjugated Etanercept, Proclin® and stabilizers. 1 x 12 mL TMB Substrate Solution Ready to use. Contains 3,3',5,5'-Tetramethylbenzidine (TMB). 1 x 12 mL Stop Solution Ready to use. 1 N Hydrochloric acid (HCI). 1 x 50 mL Wash Buffer, Concentrate (20x) Contains buffer, Tween® 20 and KathonTM. 2 x 1 Adhesive Seal For sealing microtiter plate during incubation.
Material not included:	 Micropipettes (< 3 % CV) and tips to deliver 5-1000 μL. Bidistilled or deionised water and calibrated glasswares (e.g. flasks or cylinders). Wash bottle, automated or semi-automated microtiter plate washing system. Microtiter plate reader capable of reading absorbance at 450 nm (reference wavelength at 600-650 nm is optional). Absorbent paper towels, standard laboratory glass or plastic vials, and a timer.

Target:	Etanercept Antibody
Target Type:	Antibody
Background:	Etanercept is a dimeric fusion protein consisting of the extracellular ligand-binding portion of the human 75 kilodalton (p75) tumor necrosis factor receptor (TNFR) linked to the Fc portion of human IgG1. The Fc component of etanercept contains the CH2 domain, the CH3 domain and hinge region, but not the CH1 domain of IgG1. Etanercept consists of 934 amino acids and has an apparent molecular weight of approximately 150 kilodaltons. Etanercept binds specifically to tumor necrosis factor (TNF) and blocks its interaction with cell surface TNF receptors. Elevated levels of TNF are found in involved tissues and fluids of patients with rheumatoid arthritis (RA), psoriatic arthritis, ankylosing spondylitis (AS), and plaque psoriasis. Etanercept inhibits binding
	of both TNFα and TNFβ (lymphotoxin alpha [LTα]) to cell surface TNFRs, rendering TNF biologically inactive. However, the use of etanercept was associated to the development of anti-

Target Details

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Target Details	
	etanercept antibodies in various percentages of patients during therapy with the drug Etanercept. This might lead to severe complications. The Antibody to Etanercept ELISA Kit can be efficiently used for monitoring anti- Etanercept antibodies during therapy and offers the clinician a tool for decision on possible preventive measures.
Molecular Weight:	144 kDa
Application Details	
Application Notes:	 Before performing the assay, samples and assay kit should be brought to room temperature (about 30 minutes beforehand) and ensure the homogeneity of the solution. All Standards should be run with each series of unknown samples. Standards should be subject to the same manipulations and incubation times as the samples being tested. All steps of the test should be completed without interruption. Use new disposable plastic pipette tips for each reagent, standard or specimen in order to avoid cross contamination.
Comment:	Antibody to Etanercept ELISA is suitable also for using by an automated ELISA processor.
Sample Volume:	10 μL
Assay Time:	2.5 h
Plate:	Pre-coated
Protocol:	The Antibody to Etanercept ELISA is a sandwich type ELISA for the determination of antibodies against Etanercept in serum and plasma samples. During the first incubation period, antibodies to Etanercept in patient serum/plasma samples are captured by the drug Etanercept coated or the wall of the microtiter wells. After washing away the unbound components from samples, a peroxidase-labelled Etanercept conjugate is added and then incubated. Antibody to Etanercept

Protocol:	The Antibody to Etanercept ELISA is a sandwich type ELISA for the determination of antibodies
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	the wall of the microtiter wells. After washing away the unbound components from samples, a
	peroxidase-labelled Etanercept conjugate is added and then incubated. Antibody to Etanercept,
	if present in sample, will make a bridge, with its two identical Fab arms, between the Etanercept
	coated on the well and the other Etanercept labeled with peroxidase. After a second washing
	step, the bound enzymatic activity is detected by addition of tetramethylbenzidine (TMB)
	chromogen-substrate. Finally, the reaction is terminated with stop solution. The positive
	reaction is related with the presence of antibodies to Etanercept in the sample.
Reagent Preparation:	Wash Buffer: Dilute 10 mL Wash Buffer (up to 200 mL) at the ratio of 1:20 with distilled water.
	Warm up at 37 °C to dissolve crystals. Mix vigorously.
	Store at 2-8 °C for up to 4 weeks.
	Prepare Wash Buffer before starting the assay procedure.
Sample Collection:	Normal serum or plasma collection

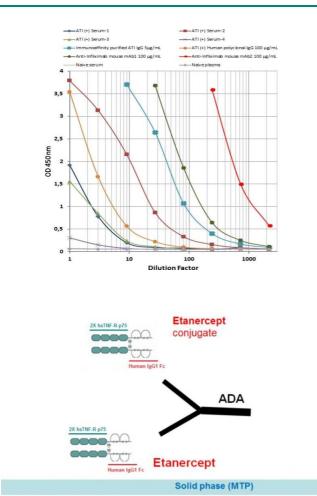
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Serum, Plasma (EDTA, Heparin): The usual precautions for venipuncture should be observed. It is important to preserve the chemical integrity of a blood specimen from the moment it is collected until it is assayed. Do not use grossly hemolytic, icteric or grossly lipemic specimens. Samples appearing turbid should be centrifuged before testing to remove any particulate material.			
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material.			
Storage: 2-8 °C ≤,-20 °C (Aliquots)			
Keep away from heat or direct sun light.			
Avoid repeated freeze-thaw cycles.			
Stability: 3 days at 2-8 °C, 6 months at -20 °C			
1. Pipette 100 μL of Assay Buffer into each of the wells to be used.			
2. Pipette 10 μ L of each Ready-to Use Negative Control, Cut-off Control, Positive Control, and			
Samples into the respective wells of microtiter plate. Wells A1: Negative Control B1: Negative			
Control C1: Cut-off Control D1: Cut-off Control E1: Positive Control F1: Positive Control G1			
and so on: Samples (Serum/Plasma)			
 Cover the plate with adhesive seal. Shake plate carefully. Incubate 60 min at room temperature (RT) (20-25 °C). 			
4. Remove adhesive seal. Aspirate or decant the incubation solution. Wash the plate 3 X 300 μ L			
of Diluted Wash Buffer per well. Remove excess solution by tapping the inverted plate on a paper towel.			
5. Pipette 100 μL of Enzyme Conjugate (HRP-Etanercept) into each well.			
6. Cover plate with adhesive seal. Shake plate carefully. Incubate 60 min at RT.			
7. Remove adhesive seal. Aspirate or decant the incubation solution. Wash the plate 3 X 300 μL of Diluted Wash Buffer per well. Remove excess solution by tapping the inverted plate on a paper towel.			
8. Pipette 100 μL of Ready-to-Use TMB Substrate Solution into each well.			
9. Incubate 15 min at RT. Avoid exposure to direct sunlight			
10. Stop the substrate reaction by adding 100 μL of Stop Solution into each well. Briefly mix			
contents by gently shaking the plate. Color changes from blue to yellow.			
11. Measure optical density (OD) with a photometer at 450 nm (Reference at OD620 nm is			
optional) within 15 min after pipetting the Stop Solution.			
For the run to be valid, the OD450 nm of each Positive Control should be \ge 0.500 and the OD450			
nm of each Negative Control should be \leq 0.100. If not, improper technique or reagent			
deterioration may be suspected and the run should be repeated. The results are evaluated by			
dividing all individual results by the mean OD450nm of the Cut-off Controls. The results are			
expressed in arbitrary units (AU/mL).			
Cut-off= 3 AU/mL=OD Cut-off Control			

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	Samples which have an equal and higher optical density (OD) than the mean OD of cut-off
	controls are positive.
	Range: ≥, 3 AU/mL (Positive)
	Range: < 3 AU/mL (Negative)
	The results themselves should not be the only reason for any therapeutical consequences.
	They have to be correlated to other clinical observations.
	Sample calculation for a positive sample:
	OD of patient's sample = 0.300
	Average OD of cut-off controls = 0.150 (3 AU/mL)
	Concentration of patient's sample = 0.300/0.150 x 3 AU/mL = 6 AU/mL
Assay Precision:	Intra-assay CV: <10%.
	Inter-assay CV: <10%
Restrictions:	For Research Use only
Handling	
Buffer:	< 15mM NaN3
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	The kit is shipped at ambient temperature and should be stored at 2-8°C.
	Keep away from heat or direct sun light.
	The storage and stability of specimen and prepared reagents is stated in the corresponding
	chapters.
	The microtiter strips are stable up to the expiry date of the kit in the broken, but tightly closed
	bag when stored at 2-8°C.
Expiry Date:	24 months

Images



lmage 1.			
Image 2.			

Samples pre-incubated without specific drug Samples pre-incubated with specific drug 4 3,5 3 00 1,5 U 2,5 1 0,5 0 ATI (+) Serum1 ATI (+) Serum2 Purified mAb1 Purified mAb2 Purified ATI False positive 5µg/mL 25µg/mL 25µg/mL Serum

Image 3.

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