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# Datasheet for ABIN2862666 Omalizumab Antibody ELISA Kit

3 Images



### Overview

Quantity:	96 tests
Target:	Omalizumab 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 Omalizumab 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 Omalizumab (Xolair®) Screening test was performed with 94 different native and RF-negative human sera. All produced OD450nm values (ranged from 0.048 to 0.061) less than the cut-off value (3x0.055).
Sensitivity:	10 ng/mL
Characteristics:	This test does not measure the antibodies if they already are bound to the drug Omalizumab
Components:	• 1 x 12 x 8 Microtiter Plate Break apart strips pre-coated with the drug Omalizumab.

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	<ul> <li>1 x 2 mL Positive Control Ready to use. Contains reactive antibody, proteins, stabilizer and &lt;15mM NaN3.</li> <li>1 x 2 mL Negative Control Ready to use. Contains human serum, stabilizer and &lt;15mM NaN3.</li> <li>1 x 60 mL Assay Buffer Blue colored. Ready to use. Contains proteins and &lt;15mM NaN3.</li> <li>1 x 12 mL Enzyme Conjugate Red colored. Ready to use. Contains horseradish peroxidase(HRP)-conjugated Omalizumab, Proclin® and stabilizers.</li> <li>1 x 12 mL TMB Substrate Solution Ready to use. Contains 3,3',5,5'-Tetramethylbenzidine (TMB).</li> <li>1 x 12 mL Stop Solution Ready to use. 1 N Hydrochloric acid (HCl).</li> <li>1 x 50 mL Wash Buffer, Concentrate (20x) Contains buffer, Tween® 20 and KathonTM.</li> </ul>
Material not included:	<ul> <li>2 x 1 Adhesive Seal For sealing microtiter plate during incubation.</li> <li>Micropipettes (&lt; 3 % CV) and tips to deliver 5-1000 μL.</li> <li>Bidistilled or deionised water and calibrated glasswares (e.g. flasks or cylinders).</li> <li>Wash bottle, automated or semi-automated microtiter plate washing system.</li> <li>Microtiter plate reader capable of reading absorbance at 450 nm (reference wavelength at 600-650 nm is optional).</li> <li>Absorbent paper towels, standard laboratory glass or plastic vials, and a timer.</li> </ul>

## Target Details

Target:	Omalizumab Antibody
Target Type:	Antibody
Background:	Omalizumab is a recombinant DNA-derived humanized IgG1ĸ monoclonal antibody and it binds
	to human immunoglobulin E (IgE). The molecular weight of omalizumab is 149 kilodlatons and
	is produced by a Chinese hamster ovary cell suspension culture. Omalizumab inhibits the
	binding of IgE to IgE receptor (FccRI) on the surface of mast cells and basophils. Therefore, the
	omalizumab is expected to limit the degree of release of mediators of the allergic response
	from the FccRI bearing cells. According to the prescribing information, antibodies to
	Omalizumab could be detected in patients treated with Omalizumab. The Antibody to
	Omalizumab ELISA Kit can be efficiently used for monitoring Anti-Omalizumab antibodies
	during therapy and offers the clinician a tool for decision on possible preventive measures to
	reduce Anti-Omalizumab antibodies.

Molecular Weight:

144 kDa

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Application Notes:	<ul> <li>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.</li> <li>All Standards should be run with each series of unknown samples.</li> <li>Standards should be subject to the same manipulations and incubation times as the samples being tested.</li> <li>All steps of the test should be completed without interruption.</li> <li>Use new disposable plastic pipette tips for each reagent, standard or specimen in order to avoid cross contamination.</li> </ul>
Comment:	Antibody to Omalizumab ELISA is also suitable for using by an automated ELISA processor.
Sample Volume:	5 μL
Assay Time:	2.5 h
Plate:	Pre-coated
Protocol:	The Antibody to Omalizumab ELISA is a sandwich type ELISA for the determination of free antibodies against Omalizumab in serum and plasma samples. During the first incubation period, antibodies to Omalizumab in patient serum/plasma samples are captured by the drug Omalizumab coated on the wall of the microtiter wells. After washing away the unbound components from samples, a peroxidase-labelled Omalizumab conjugate is added and then incubated. Antibody to Omalizumab, if present in sample, will make a bridge, with its two identical Fab arms, between the Omalizumab coated on the well and the other Omalizumab 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 to the presence of antibodies to Omalizumab 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
Sample Preparation:	Serum/ Plasma: Dilute Serum/ Plasma (Sample) at the ratio of 1:101 with Assay Buffer. For dilution at 1:101, 5 μL Sample + 500 μL Assay Buffer Negative and Positive Controls are ready-to-use and should NOT be diluted with the assay buffer.

Serum, Plasma (EDTA, Heparin): The usual precautions for venipuncture should be observed. It

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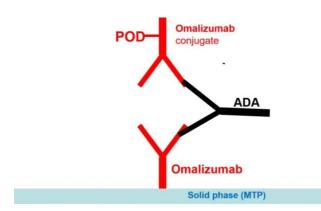
### **Application Details**

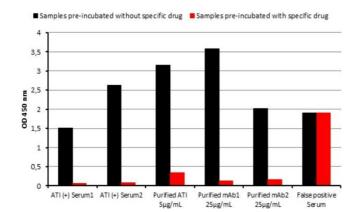
	is important to preserve the chemical integrity of a blood specimen from the moment it is
	collected until it is assayed. Do not use grossly hemolytic, icteric or grossly lipemic specimens.
	Samples appearing turbid should be centrifuged before testing to remove any particulate
	material.
	Storage: 2-8 °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
Assay Procedure:	<ol> <li>Pipette 100 μL of each Ready-to Use Negative Control, Positive Control, and 1:101 Diluted Samples (as described in section 10.2) into the respective wells of microtiter plate. Wells A1: Negative Control B1: Negative Control C1: Positive Control D1 and so on: Diluted samples (Serum/Plasma)</li> </ol>
	<ol> <li>Cover the plate with adhesive seal. Shake plate carefully. Incubate 60 min at room temperature (RT) (18-25 °C).</li> </ol>
	3. 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.
	4. Pipette 100 $\mu$ L of Enzyme Conjugate (HRP-Omalizumab) into each well.
	5. Cover plate with adhesive seal. Shake plate carefully. Incubate 60 min at RT.
	6. 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.
	7. Pipette 100 μL of Ready-to-Use TMB Substrate Solution into each well.
	8. Incubate 20 min at RT. Avoid exposure to direct sunlight
	9. Stop the substrate reaction by adding 100 $\mu L$ of Stop Solution into each well. Briefly mix
	contents by gently shaking the plate. Color changes from blue to yellow.
	10. Measure optical density (OD) with a photometer at 450 nm (Reference at OD620nm is optional) within 15 min after pipetting the Stop Solution.
Calculation of Results:	For the run to be valid, the OD450 nm of the Positive Control should be $\geq$ 1.000 and the OD450
	nm of each Negative Control should be $\leq$ 0.150. 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 Negative Controls. The results are
	expressed in arbitrary units (AU/mL).
	Range: > 3 AU/mL (Positive)
	Range: ≤, 3 AU/mL (Negative)

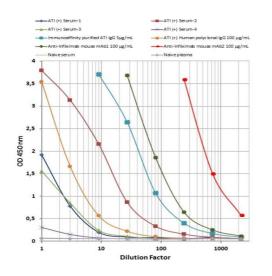
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### Application Details

	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 sample = 0.740 Cut-off = 3 x
	Average OD of Negative Controls = 3 x 0.100 = 0.300 = 3 AU/mL
	Concentration of sample = 0.740/0.100 = 7.4 AU/mL (positive)
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







# Image 1.

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Image 2.

Image 3.

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