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## Datasheet for ABIN577535 Myeloperoxidase ELISA Kit

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#### Overview

Quantity:	96 tests
Target:	Myeloperoxidase (MPO)
Reactivity:	Rabbit
Method Type:	Competition ELISA
Detection Range:	1.25-20 ng/mL
Minimum Detection Limit:	1.25 ng/mL
Application:	ELISA

#### Product Details

Purpose:	For the quantitative determination of rabbit myeloperoxidase (MPO) concentrations in serum, plasma, cell culture supernates, tissue homogenates.
Sample Type:	Serum, Plasma, Cell Culture Supernatant, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of rabbit MPO.
Cross-Reactivity (Details):	Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between the target antigen and all analogues for other species. Therefore, cross reaction may still exist.
Sensitivity:	1.25 ng/mL
Components:	Assay plate (12 × 8 coated Microwells)

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	<ul> <li>Standard (freeze dried)</li> <li>Biotin-antibody (100 × concentrate)</li> <li>HRP-avidin (100 × concentrate)</li> <li>Biotin-antibody Diluent</li> <li>HRP-avidin Diluent</li> <li>Sample Diluent</li> <li>Sample Diluent</li> <li>Wash Buffer (25 × concentrate)</li> <li>TMB Substrate</li> <li>Stop Solution</li> <li>Adhesive Strip (for 96 wells)</li> <li>Instruction manual</li> </ul>
Material not included:	<ul> <li>Microplate reader capable of measuring absorbance at 450nm, with the correction wavelength set at 540nm or 570nm.</li> <li>An incubator which can provide stable incubation conditions up to 37°C ± 0.5°C.</li> <li>Squirt bottle, manifold dispenser or automated microplate washer.</li> <li>Absorbent paper for blotting the microtiter plate.</li> <li>100mL and 500mL graduated cylinders.</li> <li>Deionized or distilled water.</li> <li>Pipettes and pipette tips.</li> <li>Test tubes for dilution.</li> </ul>

#### Target Details

Target:	Myeloperoxidase (MPO)
Abstract:	MPO Products
Pathways:	Chromatin Binding

### Application Details

Application Notes:	<ul> <li>The supplier is only responsible for the kit itself, but not for the samples consumed during the assay. The user should calculate the possible amount of the samples used in the whole test. Please reserve sufficient samples in advance.</li> <li>Samples to be used within 5 days may be stored at 2-8°C, otherwise samples must be stored at -20°C (≤ 1 month) or -80°C (≤ 2 months) to avoid loss of bioactivity and contamination.</li> <li>Grossly hemolyzed samples are not suitable for use in this assay.</li> <li>If the samples are not indicated in the manual, a preliminary experiment to determine the validity of the kit is necessary.</li> <li>Please predict the concentration before assaying. If values for these are not within the range of the standard curve, users must determine the optimal sample dilutions for their particular experiments.</li> </ul>
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	<ul> <li>Tissue or cell extraction samples prepared by chemical lysis buffer may cause unexpected ELISA results due to the impacts of certain chemicals.</li> <li>Owing to the possibility of mismatching between antigens from another resource and antibodies used in this supplier's kits (e.g., antibody targets conformational epitope rather than linear epitope), some native or recombinant proteins from other manufacturers may not be recognized by this supplier's products.</li> <li>Influenced by factors including cell viability, cell number and cell sampling time, samples from cell culture supernatant may not be recognized by the kit.</li> <li>Fresh samples without long time storage are recommended for the test. Otherwise, protein degradation and denaturalization may occur in those samples and finally lead to wrong results.</li> </ul>
Comment:	Detection wavelength: 450 nm
	Information on standard material:
	Depending on the antigen to be detected, standards can be either native or recombinant
	protein. The recombinant proteins are being expressed in CHO cells in most cases. Please
	inquire for more information. The formulation of auxiliary material in the standard is considered
	proprietary information, however it does not contain any poisonous substance. Proclin 300
	(1:3000) is used as preservative.
	Information on reagents:
	In most cases the stop solution provided is 1 N H2SO4. The formulation of wash solution is
	proprietary information. None of the components contain (sodium) azide, thimerosal, 2-
	mercaptoethanol (2-ME) or any other poisonous materials. For the sandwich method kits, the
	sample diluent, antibody diluent, enzyme diluent and standard all contain BSA.
	Information on antibodies:
	The antibodies provided in different kits vary in regards to clonality and host. Some antibodies
	are affinity purified, some are Protein A
Sample Volume:	50 μL
Assay Time:	1 - 4.5 h
Plate:	Pre-coated
Protocol:	This assay employs the competitive inhibition enzyme immunoassay technique. The microtiter
	plate provided in this kit has been pre-coated with an antibody specific to MPO. Standards or
	samples are added to the appropriate microtiter plate wells with Biotin-conjugated MPO. A
	competitive inhibition reaction is launched between MPO (Standards or samples) and Biotin-

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	<ul> <li>Intra-assay: CV% less than 8%</li> <li>Inter-assay: CV% less than 10%</li> </ul>
	tested in twenty assays to assess precision.
	Inter-assay precision (precision between assays): Three samples of known concentration were
Assay Precision:	Intra-assay precision (precision within an assay): Three samples of known concentration were tested twenty times on one plate to assess precision.
	multiplied by the dilution factor.
	If samples have been diluted, the concentration read from the standard curve must be
	precise fit of the data.
	can be determined by regression analysis. This procedure will produce an adequate but less
	plotting the log of the target antigen concentration versus the log of the O.D. and the best fit line
	and draw a best fit curve through the points on the graph. The data may be linearized by
	the mean absorbance for each standard on the x-axis against the concentration on the y-axis
	four parameter logistic (4-PL) curve fit. As an alternative, construct a standard curve by plotting
	Create a standard curve by reducing the data using computer software capable of generating a
Calculation of Results:	Average the duplicate readings for each standard and sample and subtract the average zero standard optical density.
	-,
	Centrifuge the sample again after thawing before the assay. Avoid repeated freeze-thaw cycles.
	supernate immediately. Alternatively, aliquot and store samples at -20 °C or -80 °C.
	centrifuge the homogenates for 5 minutes at $5000 \times g$ , 2-8 °C. Remove and assay the
	• <b>Tissue Homogenates</b> : Rinse 100 mg tissue with 1× PBS, homogenize in 1mL of 1× PBS and store overnight at -20 °C. After two freeze-thaw cycles to break the cell membranes,
	and store samples at -20 °C or -80 °C. Avoid repeated freeze-thaw cycles.
	minutes at 1000 × g at 2-8 °C within 30 minutes of collection. Assay immediately or aliquot
	<ul> <li>repeated freeze-thaw cycles.</li> <li>Plasma: Collect plasma using EDTA or heparin as an anticoagulant. Centrifuge for 15</li> </ul>
	serum and assay immediately or aliquot and store samples at -20 °C or -80 °C. Avoid
·	temperature or overnight at 4 °C before centrifugation for 15 minutes at 1000 × g. Remove
Sample Collection:	• Serum: Use a serum separator tube (SST) and allow samples to clot for two hours at room
	is stopped and the intensity of the color is measured.
	and the color develops in opposite to the amount of MPO in the sample. The color development
	Horseradish Peroxidase (HRP) is added to the wells. Substrate solution is added to the wells
	samples, the less antibody bound by Biotin-conjugated MPO. After washing, avidin conjugated

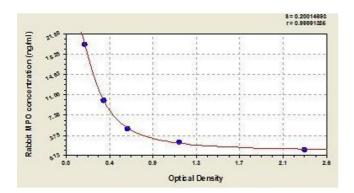
Restrictions:

For Research Use only

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Handling

Precaution of Use:	The Stop Solution provided with this kit is an acid solution. Wear eye, hand, face and clothing
	protection when using this material.
Handling Advice:	The kit should not be used beyond the expiration date on the kit label.
	<ul> <li>Do not mix or substitute reagents with those from other lots or sources.</li> </ul>
	If samples generate values higher than the highest standard, dilute the samples with Sample
	Diluent and repeat the assay.
	<ul> <li>Any variation in Sample Diluent, operator, pipetting technique, washing technique, incubation time/temperature and kit age can cause variation in binding.</li> </ul>
	This assay is designed to eliminate interference by soluble receptors, binding proteins and
	other factors present in biological samples. Until all factors have been tested in the
	Immunoassay, the possibility of interference cannot be excluded.
Storage:	4 °C/-20 °C
Storage Comment:	For unopened kit: All the reagents should be kept according to the labels on vials.
Expiry Date:	6 months
Publications	
Product cited in:	Lee, Nam, Kang, Han, Li, Kim, Kim, Kwak, Park, Chang, Yoo, Han, Kang: "Effects of an oral
	adsorbent on oxidative stress and fibronectin expression in experimental diabetic nephropathy.
	in: Nephrology, dialysis, transplantation : official publication of the European Dialysis and
	Transplant Association - European Renal Association, Vol. 25, Issue 7, pp. 2134-41, (2010) (
	PubMed).
	Chen, Wang, Wang, Sun, Li, Liu, Zhang, Liu, Xu, Chen, Wen: "Blockade of advanced glycation end
	Chen, Wang, Wang, Sun, Li, Liu, Zhang, Liu, Xu, Chen, Wen: "Blockade of advanced glycation end product formation attenuates bleomycin-induced pulmonary fibrosis in rats." in: <b>Respiratory</b>



#### ELISA

Image 1. Typical standard curve

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