# ANTIBODIES ONLINE

# Datasheet for ABIN6953622 **AMBP ELISA Kit**

1 Image

5 Publications



### Overview

| Quantity:                | 96 tests               |
|--------------------------|------------------------|
| Target:                  | AMBP                   |
| Reactivity:              | Human                  |
| Method Type:             | Sandwich ELISA         |
| Detection Range:         | 12.5 pg/mL - 800 pg/mL |
| Minimum Detection Limit: | 12.5 pg/mL             |
| Application:             | ELISA                  |

# Product Details

| Purpose:           | The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of a1M in human serum, plasma, urine.                         |
|--------------------|--|
| Sample Type:       | Plasma, Serum, Urine   |
| Analytical Method: | Quantitative   |
| Detection Method:  | Colorimetric   |
| Specificity:       | This assay has high sensitivity and excellent specificity for detection of Alpha-1-Microglobulin (a1M)                                       |
| Sensitivity:       | 6.1 pg/mL  |
| Components:        | <ul> <li>Pre-coated, ready to use 96-well strip plate, flat buttom</li> <li>Plate sealer for 96 wells</li> <li>Reference Standard</li> </ul> |

• Standard Diluent

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/5 | Product datasheet for ABIN6953622 | 01/13/2025 | Copyright antibodies-online. All rights reserved.

- Detection Reagent A
- Detection Reagent B
- Assay Diluent A
- Assay Diluent B
- Reagent Diluent (if Detection Reagent is lyophilized)
- TMB Substrate
- Stop Solution
- Wash Buffer (30 x concentrate)
- Instruction manual

# Target Details

| Target:             | AMBP  |
|---------------------|---|
| Alternative Name:   | Alpha-1-Microglobulin (a1M) (AMBP Products)   |
| Application Details |   |
| Comment:            | Information on standard material:   |
|                     | The standard might be recombinant protein or natural protein, that will depend on the specific                                |
|                     | kit. Moreover, the expression system is E.coli or yeast or mammal cell. There is 0.05% proclin                                |
|                     | 300 in the standard as preservative.  |
|                     | Information on reagents:  |
|                     | The stop solution used in the kit is sulfuric acid with concentration of 1 mol/L. And the wash                                |
|                     | solution is TBS. The standard diluent contains 0.02 % sodium azide, assay diluent A and assay                                 |
|                     | diluent B contain 0.01% sodium azide. Some kits can contain is BSA in them.   |
|                     | Information on antibodies:  |
|                     | The provided antibodies and their host vary in different kits.  |
| Sample Volume:      | 100 μL  |
| Assay Time:         | 3 h   |
| Plate:              | Pre-coated  |
| Protocol:           | 1. Prepare all reagents, samples and standards,   |
|                     | 2. Add 100 $\mu$ L standard or sample to each well. Incubate 1 hours at 37 °C,  |
|                     | 3. Aspirate and add 100µL prepared Detection Reagent A. Incubate 1 hour at 37 °C,   |
|                     | <ol> <li>Aspirate and wash 3 times,</li> <li>Add 100µL prepared Detection Reagent B. Incubate 30 minutes at 37 °C,</li> </ol> |
|                     | 5. Add Toopic prepared Detection Reagent B. Inclubate 30 minutes at 57 °C,  |

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/5 | Product datasheet for ABIN6953622 | 01/13/2025 | Copyright antibodies-online. All rights reserved.

- 6. Aspirate and wash 5 times,
- 7. Add 90µL Substrate Solution. Incubate 10-20 minutes at 37 °C,
- 8. Add 50µL Stop Solution. Read at 450nm immediately.

Reagent Preparation:

 Bring all kit components and samples to room temperature (18-25 °C) before use. If the kit will not be used up in one time, please only take out strips and reagents for present experiment, and leave the remaining strips and reagents in required condition.

2. Standard - Reconstitute the Standard with 0.5 mL of Standard Diluent, keep for 10 minutes at room temperature, shake gently (not to foam). The concentration of the standard in the stock solution is 800pg/mL. Prepare 7 tubes containing 0.25 mL Standard Diluent and produce a double dilution series. Mix each tube thoroughly before the next transfer. Set up 7 points of diluted standard such as 800pg/mL, 400pg/mL, 200pg/mL, 100pg/mL, 50pg/mL, 25pg/mL, 12.5pg/mL, and the last microcentrifuge tube with Standard Diluent is the blank as 0pg/mL.

3. Detection Reagent A and Detection Reagent B - If lyophilized reconstitute the Detection Reagent A with 150µL of Reagent Diluent, keep for 10 minutes at room temperature, shake gently (not to foam). Briefly spin or centrifuge the stock Detection A and Detection B before use. Dilute them to the working concentration 100-fold with Assay Diluent A and B, respectively.

- 4. Wash Solution Dilute 20 mL of Wash Solution concentrate (30x) with 580 mL of deionized or distilled water to prepare 600 mL of Wash Solution (1x).
- 5. TMB substrate Aspirate the needed dosage of the solution with sterilized tips and do not dump the residual solution into the vial again.

#### Note:

- 1. Making serial dilution in the wells directly is not permitted.
- 2. Prepare standards within 15 minutes before assay. Please do not dissolve the reagents at 37  $^{\circ}\mathrm{C}$  directly.
- 3. Please carefully reconstitute Standards or working Detection Reagent A and B according to the instruction, and avoid foaming and mix gently until the crystals are completely dissolved. To minimize imprecision caused by pipetting, use small volumes and ensure that pipettors are calibrated. It is recommended to suck more than 10µL for one pipetting.
- 4. The reconstituted Standards, Detection Reagent A and Detection Reagent B can be used only once.
- 5. If crystals have formed in the Wash Solution concentrate (30x), warm to room temperature and mix gently until the crystals are completely dissolved.
- 6. Contaminated water or container for reagent preparation will influence the detection result.

Sample Preparation:

- It is recommended to use fresh samples without long storage, otherwise protein degradation and denaturation may occur in these samples, leading to false results. Samples should therefore be stored for a short period at 2 - 8 °C or aliquoted at -20 °C (≤1 month) or -80 °C (≤ 3 months). Repeated freeze-thaw cycles should be avoided. Prior to assay, the frozen samples should be slowly thawed and centrifuged to remove precipitates.
- If the sample type is not specified in the instructions, a preliminary test is necessary to determine compatibility with the kit.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/5 | Product datasheet for ABIN6953622 | 01/13/2025 | Copyright antibodies-online. All rights reserved.

|                    | <ul> <li>If a lysis buffer is used to prepare tissue homogenates or cell culture supernatant, there is a possibility of causing a deviation due to the introduced chemical substance. The recommended dilution factor is for reference only.</li> <li>Please estimate the concentration of the samples before performing the test. If the values are not in the range of the standard curve, the optimal sample dilution for the particular experiment has to be determined.</li> </ul>                                 |
|--------------------|---|
| Assay Precision:   | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level of   |
|                    | target were tested 20 times on one plate, respectively.   |
|                    | Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level o   |
|                    | target were tested on 3 different plates, 8 replicates in each plate.   |
|                    | CV(%) = SD/meanX100   |
|                    | Intra-Assay: CV < 10%   |
|                    | Inter-Assay: CV < 12%   |
| Restrictions:      | For Research Use only   |
| Handling           |   |
| Precaution of Use: | The Stop Solution suggested for use with this kit is an acid solution. Wear eye, hand, face, and  |
|                    | clothing protection when using this material.   |
| Storage:           | 4 °C/-20 °C   |
| Storage Comment:   | <ol> <li>For unopened kit: All reagents should be stored according to the labels on the vials. The<br/>Standard, Detection Reagent, and 96-well Strip Plate should be stored at -20 °C upon receip<br/>while the other reagents should be stored at 4 °C.</li> <li>For opened kits: the remaining reagents must be stored according to the above storage<br/>conditions. In addition, please return the unused wells to the foil pouch containing the<br/>desiccant and seal the foil pouch with the zipper.</li> </ol> |
| Expiry Date:       | 6 months  |
| Publications       |   |
| Product cited in:  | Yang, Wang, Lu, Tsai, Lin, Su, Tyan: "Proteomic profiling for peritoneal dialysate: differential  |
|                    | protein expression in diabetes mellitus." in: BioMed research international, Vol. 2013, pp.   |
|                    | 642964, (2013) (PubMed).  |
|                    | Riaz, Alam, Srai, Skinner, Riaz, Akhtar: "Proteomic identification of human urinary biomarkers in   |
| Order at www.      | antibodies-online.com   www.antikoerper-online.de   www.anticorps-enligne.fr   www.antibodies-online.cn   |

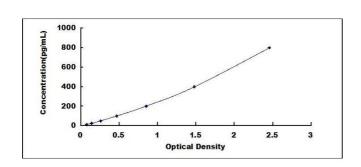
diabetes mellitus type 2." in: **Diabetes technology & therapeutics**, Vol. 12, Issue 12, pp. 979-88, (2011) (PubMed).

Maahs, Siwy, Argilés, Cerna, Delles, Dominiczak, Gayrard, Iphöfer, Jänsch, Jerums, Medek, Mischak, Navis, Roob, Rossing, Rossing, Rychlík, Schiffer, Schmieder, Wascher, Winklhofer-Roob, Zimmerli et al.: "Urinary collagen fragments are significantly altered in diabetes: a link to pathophysiology. ..." in: **PLoS ONE**, Vol. 5, Issue 9, (2011) (PubMed).

Riaz, Skinner, Srai: "Effect of high dose thiamine on the levels of urinary protein biomarkers in diabetes mellitus type 2." in: **Journal of pharmaceutical and biomedical analysis**, Vol. 54, Issue 4, pp. 817-25, (2010) (PubMed).

Sollberg, Holzmann, Marsch, Altmeyer, Hör: "[Urticaria pigmentosa--an obligate systemic disease? Results of nuclear medicine studies and etiopathogenetic significance]." in: **Der Hautarzt; Zeitschrift für Dermatologie, Venerologie, und verwandte Gebiete**, Vol. 38, Issue 10, pp. 583-8, (1988) (PubMed).

## Images



#### ELISA

**Image 1.** Typical standard curve

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 5/5 | Product datasheet for ABIN6953622 | 01/13/2025 | Copyright antibodies-online. All rights reserved.