

## Rat Alpha-2 Macroglobulin ELISA Kit | A2M elisa kit

Rat Alpha 2-Macroglobulin ELISA Kit

|                              |                          |
|------------------------------|--------------------------|
| CATALOG #<br><b>AAA76934</b> | REACTIVITY<br><b>Rat</b> |
|------------------------------|--------------------------|

### PRODUCT SYNONYMS

Alpha-2 Macroglobulin; Rat Alpha 2-Macroglobulin ELISA Kit; Rat Alpha-2 Macroglobulin; A2M elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                          |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Rat                                                                                                                                                                      |
| Samples                 | Immunoperoxidase Assay for Determination of Alpha 2-Macroglobulin in Rat Samples                                                                                         |
| Assay Type              | Sandwich                                                                                                                                                                 |
| Intended Uses           | The Alpha 2-Macroglobulin test kits are a highly sensitive two-site enzyme linked immunoassay (ELISA) for measuring Alpha 2-Macroglobulin in biological samples of rats. |
| Preparation and Storage | Store at 4 degree C.                                                                                                                                                     |

### ADDITIONAL INFORMATION

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for A2M elisa kit | <p><b>Principle of the Assay:</b> The principle of the double antibody sandwich ELISA is represented in Figure 1. In this assay the Alpha 2-Macroglobulin present in samples reacts with the anti-Alpha 2-Macroglobulin antibodies which have been adsorbed to the surface of polystyrene microtitre wells. After the removal of unbound proteins by washing, anti-A2M antibodies conjugated with horseradish peroxidase (HRP), are added. These enzyme-labeled antibodies form complexes with the previously bound A2M. Following another washing step, the enzyme bound to the immunosorbent is assayed by the addition of a chromogenic substrate, 3,3',5,5'-tetramethylbenzidine (TMB). The quantity of bound enzyme varies directly with the concentration of A2M in the sample tested; thus, the absorbance, at 450 nm, is a measure of the concentration of A2M in the test sample. The quantity of A2M in the test sample can be interpolated from the standard curve constructed from the standards, and corrected for sample dilution.</p> <p><b>Background:</b> Alpha 2-Macroglobulin (A2M) is a major protease inhibitor in serum and an acute phase protein which increases significantly in concentration in the rat as a result of inflammation. The major pathophysiological role for rat alpha 2-macroglobulin has yet to be conclusively defined. This kit is specific to the alpha 2- macroglobulin and will not cross react with the closely related alpha 1-macroglobulin.</p> |
| Product Categories/Family for A2M elisa kit   | ELISA Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

### NCBI AND UNIPROT INFORMATION

|                                  |                                                                |
|----------------------------------|----------------------------------------------------------------|
| NCBI GI #                        | 119608996                                                      |
| NCBI GeneID                      | 2                                                              |
| UniProt Accession #              | P01023; Q13677; Q59F47; Q5QTS0; Q68DN2; Q6PIY3; Q6PN97; Q9BQ22 |
| Molecular Weight                 | 163,291 Da                                                     |
| NCBI Official Full Name          | alpha-2-macroglobulin                                          |
| NCBI Official Synonym Full Names | alpha-2-macroglobulin                                          |
| NCBI Official Symbol             | A2M                                                            |

|                               |                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| NCBI Official Synonym Symbols | A2MD; CPAMD5; FWP007; S863-7; DKFZp779B086                                                                              |
| NCBI Protein Information      | alpha-2-macroglobulin; alpha-2-M; OTTHUMP00000196829; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 5 |
| UniProt Protein Name          | Alpha-2-macroglobulin                                                                                                   |
| UniProt Gene Name             | <b>A2M</b>                                                                                                              |
| UniProt Synonym Gene Names    | CPAMD5                                                                                                                  |
| UniProt Entry Name            | A2MG_HUMAN                                                                                                              |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://www.aaabiotech.com/rat-elisa-kits/alpha-2-macroglobulin/76934>