

Rat Uromodulin (UMOD) ELISA Kit | UMOD elisa kit

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CATALOG #
AAA20741

REACTIVITY
Rat

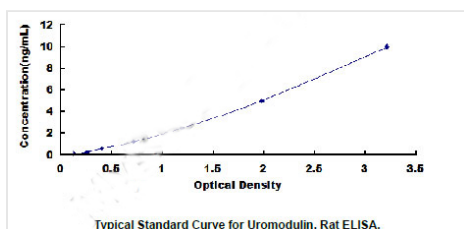
PRODUCT SYNONYMS

Uromodulin (UMOD); Rat Uromodulin (UMOD) ELISA Kit; THP; Uromucoid; Tamm-Horsfall Glycoprotein; Tamm-Horsfall urinary glycoprotein; UMOD elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of uromodulin. No significant cross-reactivity or interference between uromodulin and analogues was observed.
Sequence Length	673
Assay Type	Quantitative Sandwich
Samples	Rat serum, plasma, urine and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	< 0.067ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level uromodulin were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level uromodulin were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for UMOD elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to uromodulin. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to uromodulin. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain uromodulin, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm $\pm$ 10nm. The concentration of uromodulin in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of uromodulin in rat serum, plasma, urine and other biological fluids.
Product Categories/Family for UMOD elisa kit	Kidney biomarker
References	Effect of extracts of Boerhavia diffusa and Bryophyllum calycinum on serum uromodulin and biochemical profile of rats having adenine induced chronic kidney disease; M Singh

NCBI AND UNIPROT INFORMATION

NCBI GI #	59850812
NCBI GeneID	7369
NCBI Accession #	NP_003352.2
NCBI GenBank Nucleotide #	NM_003361.3
UniProt Accession #	P07911; Q540J6; Q6ZS84; Q8IYG0; B3KP48; B3KRN9; E9PEA4
Molecular Weight	73,571 Da
NCBI Official Full Name	uromodulin isoform a preproprotein
NCBI Official Synonym Full Names	uromodulin
NCBI Official Symbol	UMOD
NCBI Official Synonym Symbols	THP; FJHN; HNFJ; THGP; HNFJ1; MCKD2; ADMCKD2
NCBI Protein Information	uromodulin
UniProt Protein Name	Uromodulin
UniProt Gene Name	UMOD
UniProt Synonym Gene Names	THP
UniProt Entry Name	UROM_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.

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Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/uromodulin-umod/20741>