

Bioassays for Kidney Markers



Kidneys can filter up to 220 liters of blood per day while producing urine. The filtering process is complex, yet defined: nephrons remove excess fluids, waste, and toxins; however, they can retain blood, proteins and minerals. Numerous markers, including glucose and creatinine have been validated to diagnose renal health and pathological conditions such as chronic kidney disease and diabetes. BioVision offers the most comprehensive series of research kits targeting renal markers. Our products have been validated with human serum, plasma, urine, and saliva. Explore our catalog and filter your research to the next level.

Key Features:

- **Non-radioactive, versatile assays** (Microplate)
- **Specific**, homogeneous assay
- **Sensitive**: colorimetric/fluorometric format
- **Convenient**: minimal sample preparation, fast protocols (< 2 hours)
- **Cost effective**: 100 assays; High Throughput Screening (HTS) compatible
- **Adaptable**: works with most of the commonly available instrumentations

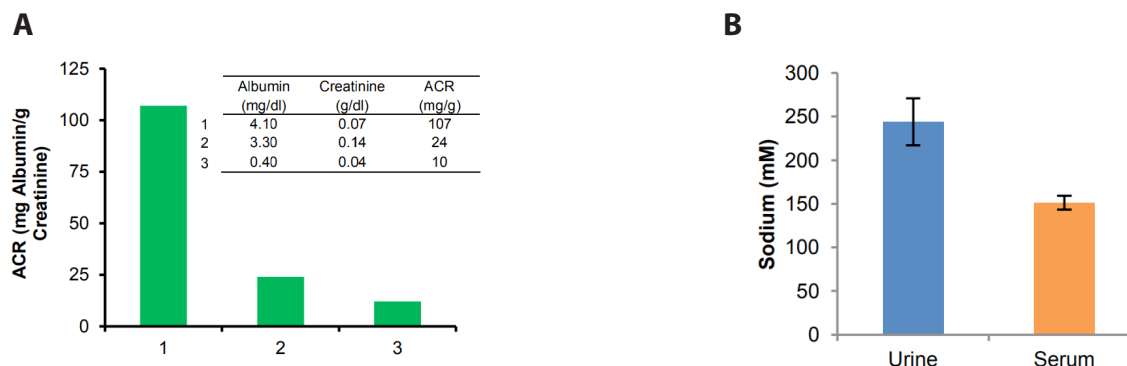


Figure (A). Estimation of ACR (**Cat. K551-100**) in human urine in diabetic (1) and non-diabetic donors (2 & 3). For Albumin, 50 μ l of undiluted samples and for Creatinine, 30 μ l of diluted samples (100 times diluted using Creatinine Assay Buffer). **(B).** Estimation of sodium (**Cat. K391-100**) in human pooled serum Off-the-Clot (5 μ l; 50 times diluted), and human urine (10 μ l; 100 times diluted). Assays were performed following kit protocols.

Kidney Markers

Target	Cat. No.	Marker	Sample Application
Adenylate Kinase (AK) Activity Assay Kit (C/F)	K350-100	Kidney Disease	Serum, urine
Albumin (Albuminuria) Assay Kit (F)	K550-100	Microalbuminuria	Urine, saliva

* C: Colorimetric; F: Fluorometric

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Target	Cat. No.	Marker	Sample Application
Albumin (BCG) Assay Kit (C)	K554-100	Microalbuminuria/ Diabetes	Serum
Albumin-to-Creatinine Ratio (ACR) Assay Kit	K551-100	Diabetes/Chronic Kidney Disease	Urine
Bilirubin (Total and Direct) Assay Kit (C)	K553-100	Kidney Disease	Serum
Calcium Assay Kit (C)	K380-250	Kidney Disease	Serum, urine
Creatinine Assay Kit (C/F)	K625-100	Chronic Kidney Disease	Serum, urine
Glucose Assay Kit (C/F)	K606-100	Diabetes	Serum, urine
Glucose Colorimetric Assay Kit II	K686-100	Diabetes	Serum, Urine
Phosphate Assay Kit (C)	K410-500	Kidney Disease	Serum, urine
Sodium Assay Kit (C)	K391-100	Chronic Kidney Disease	Serum, urine
Urea Assay Kit (C)	K375-100	Blood Urea Nitrogen	Serum, urine
Urea Assay Kit II (C)	K376-100	Blood Urea Nitrogen	Serum, urine

* C: Colorimetric; F: Fluorometric

Related Products

Target	Cat. No.	Marker	Sample Application
Aldolase Activity Assay Kit (C)	K665-100	Kidney Function	Serum, plasma, tissue
EZAlbumin™ Depletion Kit (Spin Column)	K6573-25	Albuminuria	Serum, plasma, others
Glucose Uptake Assay Kit (F)	K666-100	Diabetes	Cells
PicoProbe™ β-Hydroxybutyrate Assay Kit (F)	K651-100	Diabetes	Serum, plasma, urine
β-Hydroxybutyrate (β-HB) Assay Kit (C)	K632-100	Keto Acidosis	Serum, plasma, urine
PicoProbe™ Inulin Assay Kit (F)	K737-100	Kidney Function	Serum, plasma, plant lysates
L-Carnitine Assay Kit (C/F)	K642-100	Kidney Disease	Serum
Neutrophil Elastase Activity Assay kit (F)	K383-100	Kidney Function	Blood, plasma
Oxalate Decarboxylase Activity Assay Kit (C)	K664-100	Kidney Stones	Tissues
Oxalate Oxidase Activity Assay Kit (F)	K509-100	-	Tissues
Phosphate Assay Kit (F)	K420-100	Kidney Disease	Serum, urine
Pyrophosphate (PPi) Assay Kit (C/F)	K568-100	Renal Stones	Serum, plasma
Sarcosine Assay Kit (C/F)	K636-100	Kidney Disease	-
Thrombin Cleavage Kit	K377-100	Renal Function	-
Uric Acid Assay Kit (C/F)	K608-100	Renal Function	Serum, urine
Uricase Activity Assay Kit (F)	K734-100	Renal Function	Tissues
Xanthine/Hypoxanthine Assay Kit (C/F)	K685-100	Renal Function	Serum, plasma, urine

* C: Colorimetric; F: Fluorometric

Please visit www.BioVision.com to see the full range of Metabolism Assays from BioVision and check out our flyers.