

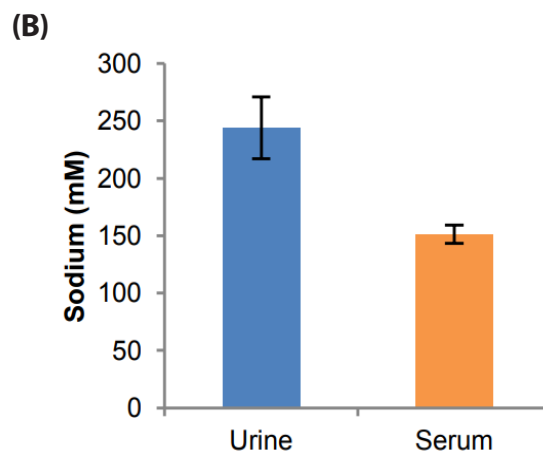
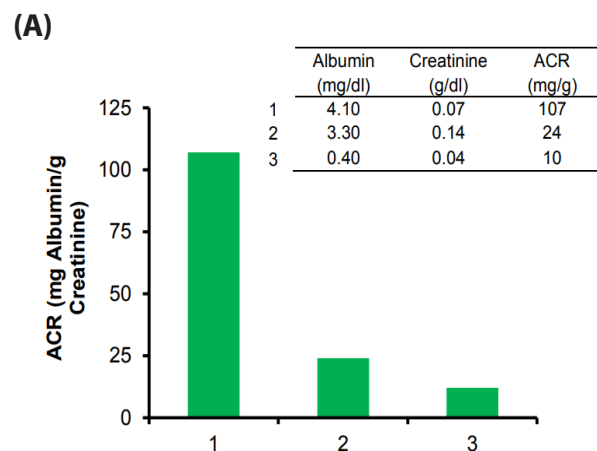
# Bioassays for Kidney Markers



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  $\mu$ l of undiluted samples and for Creatinine, 30  $\mu$ 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  $\mu$ l; 50 times diluted), and human urine (10  $\mu$ 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	Kidney Disease	Serum, urine

\* C: Colorimetric; F: Fluorometric

155 S. Milpitas Blvd, Milpitas, CA 95035

T: 408-493-1800 F: 408-493-1801

Toll Free: 800-891-9699 (US Only)



## Kidney Markers

Target	Cat. No.	Marker	Sample Application
Albumin (Albuminuria) Assay Kit (F)	K550	Microalbuminuria	Urine, saliva
Albumin (BCG) Assay Kit (C)	K554	Microalbuminuria/Diabetes	Serum
Albumin-to-Creatinine Ratio (ACR) Assay Kit	K551	Diabetes/Chronic Kidney Disease	Urine
Bilirubin (Total and Direct) Assay Kit (C)	K553	Kidney Disease	Serum
Calcium Assay Kit (C)	K380	Kidney Disease	Serum, urine
Creatinine Assay Kit (C/F)	K625	Chronic Kidney Disease	Serum, urine
Glucose Assay Kit (C/F)	K606	Diabetes	Serum, urine
Glucose Assay Kit II (C)	K686	Diabetes	Serum, Urine
Phosphate Assay Kit (C)	K410	Kidney Disease	Serum, urine
Sodium Assay Kit (C)	K391	Chronic Kidney Disease	Serum, urine
Urea Assay Kit (C)	K375	Blood Urea Nitrogen	Serum, urine
Urea Assay Kit II (C)	K376	Blood Urea Nitrogen	Serum, urine

\* C: Colorimetric; F: Fluorometric

## Related Products

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

\* C: Colorimetric; F: Fluorometric

Please visit [www.BioVision.com](http://www.BioVision.com) to see the full range of Metabolism Assays from BioVision and check out our flyers.