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ReFiNE® Dkk3 ELISA



Quantitative determination of DKK3 in urine

Dickkopf-related protein 3 (DKK3) plays an evidenced role in actively progressive kidney damage ^[1-4]

ReFiNE® Dkk3 ELISA

Intended purpose

ReFiNE® Dkk3 ELISA is an enzyme-linked immunosorbent assay (ELISA) intended for the quantitative determination of Dickkopf-related protein 3 (DKK3) in human urine samples. The assay functions as an aid in the diagnosis of acute and/or chronically progressive renal impairment.

Sample storage

If the samples are not assayed immediately, the supernatant of the centrifuged urine samples must be stored at 2–8°C and assayed within 3 days. For repeated measurements, it is recommended to aliquot the samples and to store them at -20°C. Repeated freezing and thawing of samples is possible up to 5 times.

Sample preparation

The supernatant of the urine samples must be diluted 1:10 before performing the assay.

Test specifications

Cat. no.	Y1001
Method	Sandwich ELISA
Sample matrix	Urine
Sample volume	100 µl
Incubation time	1 h 15 min
Time-to-result	<2.5 h
Standard range	16.751–4000 pg/ml
Format	96-well plate
Pack size	96 tests
Automatable	
Regulatory status	CE (IVDR certified)

IDK® ELISA

Literature:

- [1] Schunk SJ, Beisswenger C, Ritzmann F, Herr C, Wagner M, Triem S, Hütter G, Schmit D, Zewinger S, Sarakpi T, Honecker A, Mahadevan P, Boor P, Wagenpfeil S, Jörres R, Watz H, Welte T, Vogelmeier CF, Gröne HJ, Fliser D, Speer T, Bals R. Measurement of urinary Dickkopf-3 uncovered silent progressive kidney injury in patients with chronic obstructive pulmonary disease. *Kidney Int.* 2021 Nov;100(5):1081-1091. doi: 10.1016/j.kint.2021.06.029. Epub 2021 Jul 6. PMID: 34237325.
- [2] Schunk SJ, Zarbock A, Meersch M, Küllmar M, Kellum JA, Schmit D, Wagner M, Triem S, Wagenpfeil S, Gröne HJ, Schäfers HJ, Fliser D, Speer T, Zewinger S. Association between urinary dickkopf-3, acute kidney injury, and subsequent loss of kidney function in patients undergoing cardiac surgery: an observational cohort study. *Lancet.* 2019 Aug 10;394(10197):488-496. doi: 10.1016/S0140-6736(19)30769-X. Epub 2019 Jun 12. PMID: 31202596.
- [3] Speer T, Schunk SJ, Sarakpi T, Schmit D, Wagner M, Arnold L, Zewinger S, Azukaitis K, Bayazit A, Obrycki L, Kaplan Bulut I, Duzova A, Doyon A, Ranchin B, Caliskan S, Harambat J, Yilmaz A, Alpay H, Lugani F, Balat A, Arbeiter K, Longo G, Melk A, Querfeld U, Wühl E, Mehls O, Fliser D, Schaefer F, 4C Study Investigators, ESCAPE Trial Investigators. Urinary DKK3 as a biomarker for short-term kidney function decline in children with chronic kidney disease: an observational cohort study. *Lancet Child Adolesc Health.* 2023 Jun;7(6):405-414. doi: 10.1016/S2352-4642(23)00049-4. Epub 2023 Apr 26. PMID: 37119829.
- [4] Zewinger S, Rauen T, Rudnicki M, Federico G, Wagner M, Triem S, Schunk SJ, Petrakis I, Schmit D, Wagenpfeil S, Heine GH, Mayer G, Floege J, Fliser D, Gröne HJ, Speer T. Dickkopf-3 (DKK3) in Urine Identifies Patients with Short-Term Risk of eGFR Loss. *J Am Soc Nephrol.* 2018 Nov;29(11):2722-2733. doi: 10.1681/ASN.2018040405. Epub 2018 Oct 2. PMID: 30279273; PMCID: PMC6218861.

Closing the Gaps in Laboratory Diagnostics



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