



Human neutrophil gelatinase-associated lipocalin,NGAL ELISA Kit

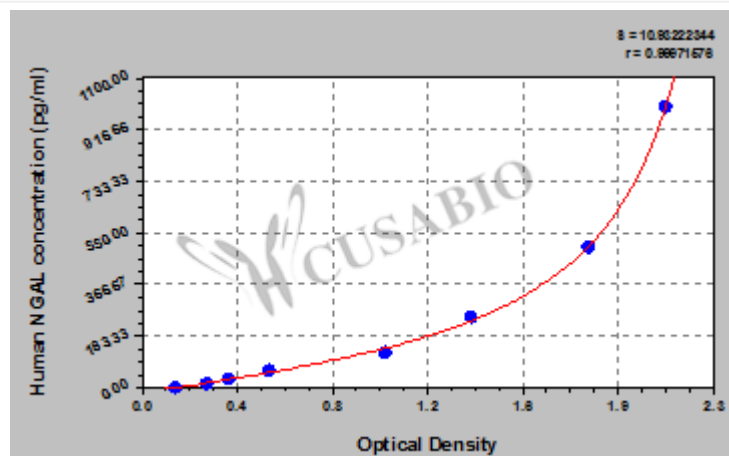
Product Code	CSB-E09408h
Abbreviation	NGAL
Protein Biological Process 1	Metabolism
Target Name	lipocalin 2
Uniprot No.	P80188
Alias	24p3, MSFI, NGAL, OTTHUMP00000022240 migration-stimulating factor inhibitor neutrophil gelatinase-associated lipocalin oncogene 24p3 siderocalin
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Apoptosis
Sample Types	serum, plasma, urine, tissue homogenates
Detection Range	15.6 pg/mL-1000 pg/mL
Sensitivity	3.9 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Metabolism
Quality Control	A microplate reader capable of measuring absorbance at 450 nm, with the correction wavelength set at 540 nm or 570 nm. An incubator can provide stable incubation conditions up to 37°C±5°C. Centrifuge Vortex Squirt bottle, manifold dispenser, or automated microplate washer Absorbent paper for blotting the microtiter plate 50-300ul multi-channel micropipette Pipette tips Single-channel micropipette with different ranges 100ml and 500ml graduated cylinders Deionized or distilled water Timer Test tubes for dilution



Gene Names

LCN2

Standard Curve



Component

A micro ELISA plate ---The 96-well plate has been pre-coated with an anti-human NGAL antibody. This dismountable microplate can be divided into 12 x 8 strip plates.

Two vials lyophilized standard ---Dilute a bottle of the standard at dilution series, read the OD values, and then draw a standard curve.

One vial Biotin-labeled NGAL antibody (100 x concentrate) (120 µl/bottle) ---Act as the detection antibody.

One vial HRP-avidin (100 x concentrate) (120 µl/bottle) ---Bind to the detection antibody and react with the TMB substrate to make the solution chromogenic.

One vial Biotin-antibody Diluent (15 ml/bottle) ---Dilute the Biotin-antibody.

One vial HRP-avidin Diluent (15 ml/bottle) ---Dilute the HRP-avidin solution.

One vial Sample Diluent (50 ml/bottle)---Dilute the sample to an appropriate concentration.

One vial Wash Buffer (25 x concentrate) (20 ml/bottle) ---Wash away unbound or free substances.

One vial TMB Substrate (10 ml/bottle) ---Act as the chromogenic agent. TMB interacts with HRP, eliciting the solution turns blue.

One vial Stop Solution (10 ml/bottle) ---Stop the color reaction. The solution color immediately turns from blue to yellow.

Four Adhesive Strips (For 96 wells) --- Cover the microplate when incubation.

An instruction manual

Description

This Human neutrophil gelatinase-associated lipocalin (NGAL) ELISA Kit allows for the in vitro quantitative determination of NSE concentrations in serum, plasma, urine, or tissue homogenates. NGAL is produced in kidney tubular cells and then released into the urine by these cells during acute kidney injury (AKI) which is common after heart surgery. Urinary and plasma NGAL has therefore been valuable for the diagnosis and prognosis of AKI. And NGAL can be used to predict the progression of chronic kidney disease (CKD). Ellen F. Carney demonstrated that NGAL is released by antineutrophil cytoplasmic antibodies (ANCA)-stimulated neutrophils and might have a protective role in ANCA-associated vasculitis (AAV).

Based on the sandwich ELISA technique, NGAL in the sample is sandwiched between pre-coated NGAL antibody and Biotin-conjugated NGAL antibody. The



Ag-Ab-Ag immune complex is labeled with HRP-avidin and then develops a color reaction after the addition of the TMB substrate solution. There is a positive correlation between the solution color intensity and the NGAL content in the sample. This kit has many advantages, including a broad detection range, high sensitivity, excellent specificity, and a precision of less than 10%. Get access to more validation details in the product instructions.

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