

Datasheet for ABIN6720377

Lipocalin 2 ELISA Kit

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Overview

Quantity:	1 kit
Target:	Lipocalin 2 (LCN2)
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	78 pg/mL - 5000 pg/mL
Minimum Detection Limit:	78 pg/mL
Application:	ELISA

Product Details

Purpose:	Rat Lipocalin-2 - NGAL Sandwich ELISA Kit for Quantitative Detection
Brand:	AccuSignal™
Sample Type:	Cell Culture Supernatant, Plasma (heparin), Serum, Urine
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Production: Natural and recombinant rat NGAL. There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	< 10 pg/mL
Components:	• Antibody-coated 96-well plate • Target Protein Standard • Detection antibody

Product Details

- Detection reagent
- Diluent buffers
- Wash buffers
- Substrate Solution
- Stop solutions
- Adhesive covers

Target Details

Target:	Lipocalin 2 (LCN2)
Alternative Name:	Lipocalin-2/NGAL (LCN2 Products)
Background:	Synonyms: 24p3, 25 kDa alpha-2-microglobulin-related subunit of MMP-9, HNL, Lcn2, Lipocalin 2, Lipocalin-2, Migration stimulating factor inhibitor, MSFI, Neutrophil gelatinase-associated lipocalin, NGAL, NGAL_HUMAN, Oncogene 24p3, p25, Siderocalin, Siderocalin LCN4 Background: Lipocalin-2(LCN2), also known as NGAL, is a protein associated with neutrophil gelatinase.¹ The LCN2 gene is located at 9q34 and contains 7 exons.² The 25-kD LCN2 protein is believed to bind small lipophilic substances such as bacteria-derived lipopolysaccharide(LPS) and formylpeptides and may function as a modulator of inflammation. NGAL tightly binds bacterial catecholate-type ferric siderophores through a cyclically permuted, hybrid electrostatic/cation-pi interaction and is a potent bacteriostatic agent in iron-limiting conditions.³ The primary LCN2 transcript is 3,696 nucleotides long, and the processed transcript is 809 nucleotides long.⁴ LCN2 expression in adult bone marrow, uterus, prostate, salivary gland, stomach, appendix, colon, trachea, and lung, and in fetal spleen and lung. The standard product used in this kit is recombinant rat NGAL, consisting of 177 amino acids with the molecular mass of 21 kDa.
Gene ID:	170496
NCBI Accession:	NP_570097
UniProt:	P30152
Pathways:	Cellular Response to Molecule of Bacterial Origin, Transition Metal Ion Homeostasis

Application Details

Application Notes:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 313pg/mL, 156pg/mL, 78pg/mL rat NGAL standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer
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Application Details

	into the control well (Zero well). Add 0.1 mL of each properly diluted sample of rat cell culture supernates, serum, plasma(heparin) or urine to each empty well. It is recommended that each rat NGAL standard solution and each sample be measured in duplicate.
Comment:	Standard: Expression system for standard: NSO, Immunogen sequence: Q21-N198
Sample Volume:	100 µL
Plate:	Pre-coated
Restrictions:	For Research Use only

Handling

Storage:	4 °C, -20 °C
Storage Comment:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.
Expiry Date:	12 months