

Datasheet for ABIN411401

Lipocalin 2 ELISA Kit

1 Image 12 Publications



Overview

Quantity:	96 tests
Target:	Lipocalin 2 (LCN2)
Binding Specificity:	AA 21-198
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	156-10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human Lipocalin-2/NGAL
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Saliva, Urine
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: Q21-G198
Specificity:	Expression system for standard: NSO Immunogen sequence: Q21-G198
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

- Todaot Betane	
Sensitivity:	<10pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette
	tips. Multichannel pipettes are recommended in the condition of large amount of samples in the
	detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation
	of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl

Target Details

Target:	Lipocalin 2 (LCN2)
Alternative Name:	LCN2 (LCN2 Products)

Background:

innate immunity and renal development. Binds iron through association with 2,5dihydroxybenzoic acid (2,5- DHBA), a siderophore that shares structural similarities with bacterial enterobactin, and delivers or removes iron from the cell, depending on the context. Iron-bound form (holo-24p3) is internalized following binding to the SLC22A17 (24p3R) receptor, leading to release of iron and subsequent increase of intracellular iron concentration. In contrast, association of the iron-free form (apo-24p3) with the SLC22A17 (24p3R) receptor is followed by association with an intracellular siderophore, iron chelation and iron transfer to the extracellular medium, thereby reducing intracellular iron concentration. Involved in apoptosis due to interleukin-3 (IL3) deprivation: iron-loaded form increases intracellular iron concentration without promoting apoptosis, while iron-free form decreases intracellular iron levels, inducing expression of the proapoptotic protein BCL2L11/BIM, resulting in apoptosis. Involved in innate immunity, possibly by sequestrating iron, leading to limit bacterial growth. . 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 human NGAL, consisting of 178 amino acids with the molecular mass of 22KDa.

Protein Function: Iron-trafficking protein involved in multiple processes such as apoptosis,

Synonyms: Neutrophil gelatinase-associated lipocalin, NGAL, 25 kDa alpha-2-microglobulin-

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gelatinase-associated lipocalin and . Upon binding to the SLC22A17 (24p3R) receptor, it is le of Bacterial Origin, Transition Metal Ion Homeostasis and bring down all components to bottom of tube. Duplicate well r both standard and sample testing. It is bone marrow and in tissues that are prone to exposure to sion is found in bone marrow as well as in uterus, prostate, salivary blon, trachea and lung. Not found in the small intestine or periphera based on standard sandwich enzyme-linked immune-sorbent conal antibody from mouse specific for NGAL has been precoated dis (NSO, Q21-G198) and test samples are added to the wells, a conal antibody from goat specific for NGAL is added subsequently g with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was tes were washed away with PBS or TBS buffer. HRP substrate IRP enzymatic reaction. TMB was catalyzed by HRP to produce a goed into yellow after adding acidic stop solution. The density of human NGAL amount of sample captured in plate.		
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and bring down all components to bottom of tube. Duplicate well r both standard and sample testing. gs to the calycin superfamily. Lipocalin family. It in bone marrow and in tissues that are prone to exposure to sion is found in bone marrow as well as in uterus, prostate, salivary plon, trachea and lung. Not found in the small intestine or peripheral based on standard sandwich enzyme-linked immune-sorbent conal antibody from mouse specific for NGAL has been precoated dis (NSO, Q21-G198) and test samples are added to the wells, a conal antibody from goat specific for NGAL is added subsequently g with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was test were washed away with PBS or TBS buffer. HRP substrate lRP enzymatic reaction. TMB was catalyzed by HRP to produce a ged into yellow after adding acidic stop solution. The density of human NGAL amount of sample captured in plate. e 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, in NGAL standard solutions into the precoated 96-well plate. Add		Cellular Localisation: Secreted . Upon binding to the SLC22A17 (24p3R) receptor, it is
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In bone marrow and in tissues that are prone to exposure to sion is found in bone marrow as well as in uterus, prostate, salivary plon, trachea and lung. Not found in the small intestine or peripheral based on standard sandwich enzyme-linked immune-sorbent onal antibody from mouse specific for NGAL has been precoated ds(NSO, Q21-G198) and test samples are added to the wells, a onal antibody from goat specific for NGAL is added subsequently g with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was test were washed away with PBS or TBS buffer. HRP substrate IRP enzymatic reaction. TMB was catalyzed by HRP to produce a ged into yellow after adding acidic stop solution. The density of human NGAL amount of sample captured in plate. 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, n NGAL standard solutions into the precoated 96-well plate. Add		assay was recommended for both standard and sample testing.
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onal antibody from goat specific for NGAL is added subsequently g with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was tes were washed away with PBS or TBS buffer. HRP substrate IRP enzymatic reaction. TMB was catalyzed by HRP to produce a ged into yellow after adding acidic stop solution. The density of human NGAL amount of sample captured in plate. 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, n NGAL standard solutions into the precoated 96-well plate. Add		assay technology. A monoclonal antibody from mouse specific for NGAL has been precoated
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tes were washed away with PBS or TBS buffer. HRP substrate IRP enzymatic reaction. TMB was catalyzed by HRP to produce a ged into yellow after adding acidic stop solution. The density of human NGAL amount of sample captured in plate. e 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, n NGAL standard solutions into the precoated 96-well plate. Add		biotinylated detection polyclonal antibody from goat specific for NGAL is added subsequently
IRP enzymatic reaction. TMB was catalyzed by HRP to produce a ged into yellow after adding acidic stop solution. The density of human NGAL amount of sample captured in plate. e 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, n NGAL standard solutions into the precoated 96-well plate. Add		and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was
ged into yellow after adding acidic stop solution. The density of human NGAL amount of sample captured in plate. e 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, n NGAL standard solutions into the precoated 96-well plate. Add		added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate
human NGAL amount of sample captured in plate. e 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, n NGAL standard solutions into the precoated 96-well plate. Add		TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a
e 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, n NGAL standard solutions into the precoated 96-well plate. Add		blue color product that changed into yellow after adding acidic stop solution. The density of
n NGAL standard solutions into the precoated 96-well plate. Add		yellow is proportional to the human NGAL amount of sample captured in plate.
· · · · · · · · · · · · · · · · · · ·	Assay Procedure:	Aliquot 0.1 mL per well of the 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL,
huffer into the central well (7 are well) Add 0.1 and of and		312pg/mL, 156pg/mL human NGAL standard solutions into the precoated 96-well plate. Add
burrer into the control well (Zero well). Add U.1 ML of each		0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each
ıman cell culture supernates, serum, plasma(heparin), saliva or		properly diluted sample of human cell culture supernates, serum, plasma(heparin), saliva or
e "Sample Dilution Guideline" above for details. It is recommended		urine to each empty well. See "Sample Dilution Guideline" above for details. It is recommended
dard solution and each sample be measured in duplicate.		that each human NGAL standard solution and each sample be measured in duplicate.
uman cell culture supernates, serum, plasma(heparin), sali e "Sample Dilution Guideline" above for details. It is recomr		0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum, plasma(heparin), sali urine to each empty well. See "Sample Dilution Guideline" above for details. It is recommended.

Application Details	
Assay Precision:	 Sample 1: n=16, Mean(pg/ml): 1246, Standard deviation: 48.6, CV(%): 3.9 Sample 2: n=16, Mean(pg/ml): 3486, Standard deviation: 174.3, CV(%): 5 Sample 3: n=16, Mean(pg/ml): 6827, Standard deviation: 423.3, CV(%): 6.2, Sample 1: n=24, Mean(pg/ml): 1522, Standard deviation: 123.3, CV(%): 8.1 Sample 2: n=24, Mean(pg/ml): 3594, Standard deviation: 230, CV(%): 6.4 Sample 3: n=24, Mean(pg/ml): 7133, Standard deviation: 492.2, CV(%): 6.9
Restrictions:	For Research Use only
Handling	
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months
Publications	
Product cited in:	Lei, Li, Zeng, Mu, Yang, Zhou, Wang, Zhang: "Value of urinary KIM-1 and NGAL combined with serum Cys C for predicting acute kidney injury secondary to decompensated cirrhosis." in: Scientific reports , Vol. 8, Issue 1, pp. 7962, (2018) (PubMed).

Yigit, Ulu, Gozel, Taskapan, Ilhan, Dogukan: "Neutrophil gelatinase-associated lipocalin reflects the severity of anemia without iron deficiency and secondary hyperparathyroidism in hemodialysis patients." in: **Northern clinics of Istanbul**, Vol. 4, Issue 1, pp. 36-42, (2017) (

Benli, Ayyildiz, Cirrik, Noyan, Ayyildiz, Cirakoglu: "Early term effect of ureterorenoscopy (URS) on the Kidney: research measuring NGAL, KIM-1, FABP and CYS C levels in urine." in: **International braz j urol : official journal of the Brazilian Society of Urology**, Vol. 43, Issue 5, pp. 887-895, (2017) (PubMed).

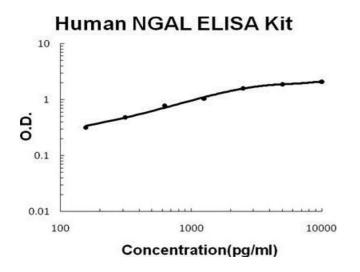
Farahbakhsh-Farsi, Djazayery, Eshraghian, Koohdani, Zarei, Javanbakht, Derakhshanian, Djalali: "Effect of Omega-3 Supplementation on Lipocalin 2 and Retinol-Binding Protein 4 in Type 2 Diabetic Patients." in: **Iranian journal of public health**, Vol. 45, Issue 2, pp. 179-85, (2016) (PubMed).

PubMed).

Libório, Braz, Seguro, Meneses, Neves, Pedrosa, Cavalcanti, Martins, Daher: "Endothelial glycocalyx damage is associated with leptospirosis acute kidney injury." in: **The American journal of tropical medicine and hygiene**, Vol. 92, Issue 3, pp. 611-6, (2015) (PubMed).

There are more publications referencing this product on: Product page

Images



ELISA

Image 1. Human Lipocalin-2/NGAL PicoKine ELISA Kit standard curve