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Datasheet for KOA0515

Mouse Lipocalin-2 - NGAL ELISA Kit

Overview

Description:	Mouse Lipocalin-2/NGAL AccuSignal ELISA Kit - KOA0515
Item No.:	KOA0515
Size:	1 Kit
Applications:	ELISA
Reactivity:	Mouse
Range:	78 pg/ml - 5000 pg/ml

Product Details

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 mouse NGAL, consisting of 179 amino acids with the molecular mass of 22KDa.
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 LCN3
Detection Kit Type:	ELISA Kit
Detection Range:	78 pg/ml - 5000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	LCN2
Reactivity:	Mouse

Immunogen:	Expression system for standard: NSO; Immunogen sequence: Q21-N200
Purity/Specificity:	Natural and recombinant mouse NGAL. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P11672 • NCBI - NP_032517.1 • GeneID - 16819 • KOA0515 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 313pg/ml, 156pg/ml, 78pg/ml mouse NGAL standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of mouse cell culture supernates, serum, plasma(heparin) or urine to each empty well. It is recommended that each mouse NGAL standard solution and each sample be measured in duplicate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
Other:	DOE: 2-8° C - 12/03/2022 -20° C - 06/03/2023

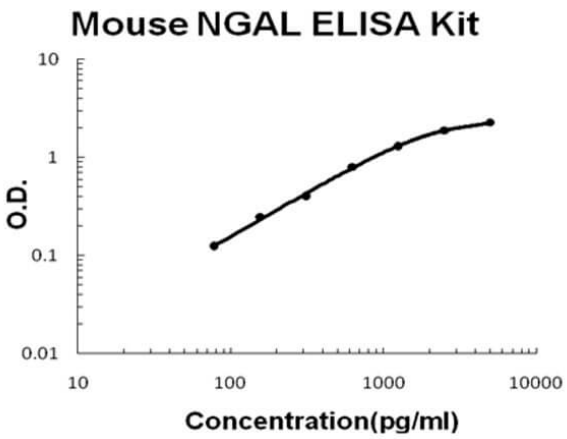
Formulation

Concentration:	1 Kit
Anticoagulant:	Heparin Sodium

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	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.
Expiration:	See kit insert for complete instructions.

Images



ELISA
Mouse Lipocalin-2/NGAL AccuSignal ELISA Kit standard curve. Assay Range: 78pg/ml-5000pg/ml.
Sensitivity: <10pg/ml.

Disclaimer

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