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Datasheet for KOA0715

Mouse CD13 - Aminopeptidase N ELISA Kit

Overview

Description:	Mouse CD13/Aminopeptidase N AccuSignal ELISA Kit - KOA0715
Item No.:	KOA0715
Size:	1 Kit
Applications:	ELISA
Reactivity:	Mouse
Range:	312 pg/ml - 20,000 pg/ml

Product Details

Background:	Alanine aminopeptidase, also known as ANPEP or CD13. is an enzyme that is used as a biomarker to detect damage to the kidneys, and that may be used to help diagnose certain kidney disorders. It is mapped to 15q26.1. Aminopeptidase N is located in the small-intestinal and renal microvillar membrane, and also in other plasma membranes. In the small intestine, Aminopeptidase N plays a role in the final digestion of peptides generated from hydrolysis of proteins by gastric and pancreatic proteases, and it is also thought to be involved in the metabolism of regulatory peptides by diverse cell types, including small intestinal and renal tubular epithelial cells, macrophages, granulocytes, and synaptic membranes from the CNS. Petrovic et al showed that CD13 was required for endothelial cell invasion in response to bradykinin. Inhibition of CD13 abrogated internalization of bradykinin receptor B2 and reduced endothelial cell motility.
Synonyms:	Alanyl (membrane) aminopeptidase, Alanyl aminopeptidase, Alanyl membrane aminopeptidase, Aminopeptidase M, Aminopeptidase N, AMPN_HUMAN, ANPEP, AP M, AP N, AP-M, AP-N, APN, CD 13, CD13, CD13 antigen, gp150, hAPN, Lap 1, Lap1, Microsomal aminopeptidase, Myeloid plasma membrane glycoprotein CD13, p150, PEPN
Detection Kit Type:	ELISA Kit
Detection Range:	312 pg/ml - 20,000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	ANPEP

Reactivity:	Mouse
Immunogen:	Expression system for standard: NSO; Immunogen sequence: K69-S966
Purity/Specificity:	Natural and recombinant mouse CD13. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P97449 • NCBI - NP_032512.2 • GeneID - 16790 • KOA0715 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 20,000pg/ml, 10,000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml mouse CD13 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 or plasma(heparin, EDTA) to each empty well. It is recommended that each mouse CD13 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.
ELISA:	312pg/ml-20,000pg/ml
Other:	DOE: 2-8° C - 08/17/2022 -20° C - 02/15/2023

Formulation

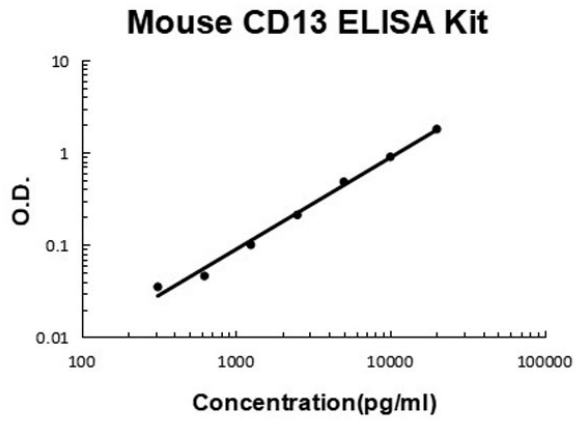
Concentration:	1 Kit
Anticoagulant:	Heparin Sodium

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 CD13/Aminopeptidase N ELISA Kit standard curve.

Disclaimer

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