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Datasheet for ABIN6720011 **KNG1 ELISA Kit**

Overview

Quantity:	1 kit
Target:	KNG1
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	0.78 ng/mL - 50 ng/mL
Minimum Detection Limit:	0.78 ng/mL
Application:	ELISA

Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	<p>Synonyms: Alpha-2-thiol proteinase inhibitor, BDK, BK, BK, included, bradykinin, bradykinin, included, Fitzgerald factor, Fitzgerald factor, included, Flaujeac factor, included, High molecular weight kininogen, High molecular weight kininogen, included, HMWK, HMWK, included, Ile-Ser-Bradykinin, Kallidin I, Kallidin II, kininogen 1, KNG, KNG1, KNG1_HUMAN, LMWK, included, Low molecular weight growth-promoting factor, Low molecular weight kininogen, included, Williams factor, included, Williams-Fitzgerald-Flaujeac factor</p> <p>Background: Kininogen-1 (KNG1), also known as alpha-2-thiol proteinase inhibitor, Williams-Fitzgerald-Flaujeac factor or the HMWK-kallikrein factor, is a protein that in humans is encoded</p>

Product Details

by the KNG1 gene. It is mapped to 3q27.3. The KNG1 gene uses alternative splicing to generate two different proteins - high - molecular - weight kininogen (HMWK) and low - molecular- weight kininogen (LMWK). HMWK is essential for blood coagulation and assembly of the kallikrein-kinin system. Also, bradykinin, a peptide causing numerous physiological effects, is released from HMWK. In contrast to HMWK, LMWK is not involved in blood coagulation. In addition to that, KNG1 is a constituent of the blood coagulation system as well as the kinin-kallikrein system.

Gene Name: KNG1

Production: Natural and recombinant human Kininogen-1. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: Q19-S644

Target Details

Target:	KNG1
Alternative Name:	Kininogen-1 - KNG1 (KNG1 Products)
Gene ID:	3827
NCBI Accession:	NP_000884
UniProt:	P01042
Pathways:	ACE Inhibitor Pathway , Glycosaminoglycan Metabolic Process

Application Details

Application Notes:	<p>Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 50 ng/mL, 25 ng/mL, 12.5 ng/mL, 6.25 ng/mL, 3.12 ng/mL, 1.56 ng/mL, 0.78 ng/mL human Kininogen-1 standard solutions into the precoated 96-well plate. Add 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 or plasma(heparin, EDTA) to each empty well. We recommend that each human Kininogen-1 standard solution and each sample is measured in duplicate.</p> <p>Blood Product Anticoagulant: Heparin Sodium</p> <p>ELISA Dilution: 0.78 ng/mL-50 ng/mL</p>
Sample Volume:	100 µL
Plate:	Pre-coated

Application Details

Restrictions: For Research Use only

Handling

Storage: RT, 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.