

Human Karyopherin Alpha 1 (KPNa1) ELISA Kit | KPNa1 elisa kit

Human Karyopherin Alpha 1 (KPNa1)(Sandwich ELISA) ELISA Kit

CATALOG #
AAA152440

REACTIVITY
Human

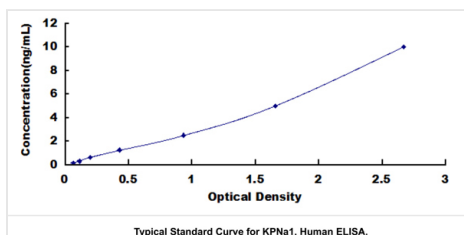
PRODUCT SYNONYMS

Karyopherin Alpha 1 (KPNa1); Human Karyopherin Alpha 1 (KPNa1)(Sandwich ELISA) ELISA Kit; ELISA Kit for Karyopherin Alpha 1 (KPNa1); IPOA5; NPI-1; RCH2; SRP1; importin alpha 5; Nucleoprotein interactor 1; RAG cohort protein 2; SRP1-beta; KPNa1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of KPNa1. No significant cross-reactivity or interference between KPNa1 and analogues was observed.
Assay Type	Quantitative Sandwich
Samples	Human tissue homogenates, cell lysates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	< 0.055ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level KPNa1 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level KPNa1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (within shelf life) Shelf-life: one year The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for KPNa1 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to KPNa1. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to KPNa1. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain KPNa1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of KPNa1 in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of KPNa1 in human tissue homogenates, cell lysates and other biological fluids.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	296439328
NCBI GeneID	3836
UniProt Accession #	P52294; Q6IBQ9; Q9BQ56; D3DN93
Molecular Weight	538
NCBI Official Full Name	Importin subunit alpha-5
NCBI Official Synonym Full Names	karyopherin alpha 1 (importin alpha 5)
NCBI Official Symbol	KPNA1
NCBI Official Synonym Symbols	RCH2; SRP1; IPOA5; NPI-1
NCBI Protein Information	importin subunit alpha-5; SRP1-beta; importin alpha 5; importin-alpha-S1; RAG cohort protein 2; importin subunit alpha-1; nucleoprotein interactor 1; karyopherin subunit alpha-1; recombination activating gene cohort 2
UniProt Protein Name	Importin subunit alpha-5
UniProt Gene Name	KPNA1
UniProt Synonym Gene Names	RCH2; NPI-1
UniProt Entry Name	IMA5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/karyopherin-alpha-1-kpna1/152440>