

Human Prokineticin 2 (PK2) ELISA Kit | PK2 elisa kit

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CATALOG #
AAA20604

REACTIVITY
Human

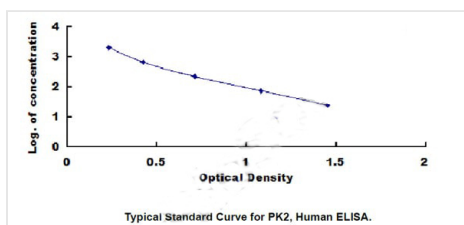
PRODUCT SYNONYMS

Prokineticin 2 (PK2); Human Prokineticin 2 (PK2) ELISA Kit; PK-2; Bv8; MIT1; KAL4; Protein Bv8 Homolog; PK2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of PK2. No significant cross-reactivity or interference between PK2 and analogues was observed.
Sequence Length	108
Assay Type	Quantitative Competitive
Samples	Human serum, plasma and other biological fluids
Detection Range	246.9-20,000pg/mL
Sensitivity	< 89.5pg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level PK2 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 PK2 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	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 PK2 elisa kit	Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to PK2 has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled PK2 and unlabeled PK2 (Standards or samples) with the pre-coated antibody specific to PK2. After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of PK2 in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of PK2 in the sample. Intended Uses: The kit is a competitive inhibition enzyme immunoassay technique for the in vitro quantitative measurement of PK2 in human serum, plasma and other biological fluids.
Product Categories/Family for PK2 elisa kit	Neuroscience
References	Circulating Prokineticin 2 Levels Are Increased in Children with Obesity and Correlated with Insulin Resistance; Int J Endocrinol; 2021 Apr 4;2021:6630102.; PMID: 33883996 ; Han Wang; Department of Clinical Laboratory, Children"s Hospital of Chongqing Medical University, National Clinical Research Center for Child Health and Disorders, Ministry of Education Key Laboratory of Child Development and Disorders, Chongqing Key Laboratory of Pediatrics, Chongqing Key Laboratory of Child Health and Nutrition, Chongqing 400014, China.

NCBI AND UNIPROT INFORMATION

NCBI GI #	187167261
NCBI GeneID	60675
NCBI Accession #	NP_001119600.1
NCBI GenBank Nucleotide #	NM_001126128.1
UniProt Accession #	Q9HC23; Q53Z79; Q6ISR0
Molecular Weight	11,659 Da
NCBI Official Full Name	prokineticin-2 isoform a
NCBI Official Synonym Full Names	prokineticin 2
NCBI Official Symbol	PROK2
NCBI Official Synonym Symbols	BV8; HH4; PK2; KAL4; MIT1
NCBI Protein Information	prokineticin-2
UniProt Protein Name	Prokineticin-2
UniProt Gene Name	PROK2
UniProt Synonym Gene Names	BV8; PK2
UniProt Entry Name	PROK2_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.