

Rat Prokineticin 2 ELISA Kit | PK2 elisa kit

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CATALOG #
AAA102362

REACTIVITY
Rat

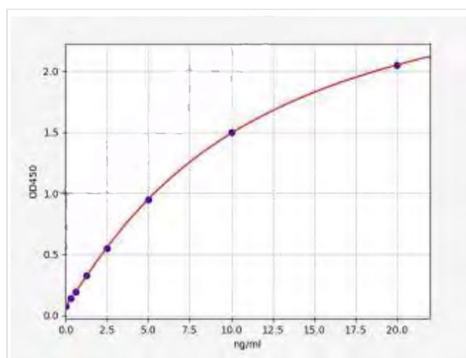
PRODUCT SYNONYMS

Prokineticin 2; Rat Prokineticin 2 ELISA Kit; PK2 (Prokineticin-2)/PROK2/BV8/Protein Bv8 homolog; PK2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Specifically recognize Prok2, no obvious cross reaction with other analogues
Sequence Length	129
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	0.313-20ng/ml
Sensitivity	0.188ng/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PK2 elisa kit	Background: Prokineticin 2 (PK2) is a secreted protein that functions as a neurotrophic factor and a regulator of angiogenesis and circadian rhythms. It interacts with G protein-coupled receptors to modulate intracellular signaling pathways involved in cell proliferation, differentiation, and migration, influencing processes such as neurogenesis and vascular development. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti Prok2 antibody was precoated onto the 96-well plate. The biotin conjugated anti Prok2 antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with Prok2 conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of Prok2 in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	187167261
NCBI GeneID	60675
NCBI Accession #	NP_001119600.1
NCBI GenBank Nucleotide #	NM_001126128.1
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.