

Human Major prion protein ELISA Kit | PRNP elisa kit

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CATALOG #
AAA17478

REACTIVITY
Human

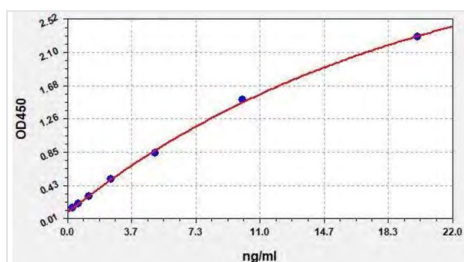
PRODUCT SYNONYMS

Major prion protein; Human Major prion protein ELISA Kit; PRNP/PrP33-35C/ASCR/PrP27-30/CJD/GSS/PrP/ASCR/KURU/PRIP/PrPc/CD230/AltPrP/p27-30/PrP33-35C; PRNP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Specifically recognize PRNP, no obvious cross reaction with other analogues
Sequence Length	253
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 PRNP elisa kit	Background: The prion protein (PRNP) is a glycoprotein that exists in membrane-bound and non-membrane-bound forms. PRNP binds copper ion with low affinity and may affect copper metabolism, especially in the central nervous system, where this protein is highly expressed. The interaction between copper and PRNP may have a protective effect on neurons. Diseases associated with PRNP include Creutzfeldt-Jakob Disease and Fatal Familial Insomnia. Among its related pathways are Nervous system development and NCAM signaling for neurite out-growth. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti PRNP antibody was pre-coated onto the 96-well plate. The biotin conjugated anti PRNP 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 PRNP 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 PRNP 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 #	122056628
NCBI GeneID	5621
NCBI Accession #	NP_001073592.1
NCBI GenBank Nucleotide #	NM_001080123.1
Molecular Weight	8,691 Da
NCBI Official Full Name	major prion protein preproprotein
NCBI Official Synonym Full Names	prion protein
NCBI Official Symbol	PRNP
NCBI Official Synonym Symbols	CJD; GSS; PrP; ASCR; KURU; PRIP; PrPc; CD230; AltPrP; p27-30; PrP27-30; PrP33-35C
NCBI Protein Information	alternative prion protein; major prion protein
UniProt Protein Name	Major prion protein
UniProt Gene Name	PRNP
UniProt Synonym Gene Names	ALTPRP; PRIP; PRP; PrP
UniProt Entry Name	PRIO_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.