

Human Natriuretic Peptide Receptor 1 (NPR1) ELISA Kit | NPR1 elisa kit

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CATALOG #
AAA136282

REACTIVITY
Human

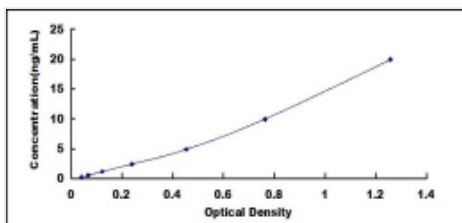
PRODUCT SYNONYMS

Natriuretic Peptide Receptor 1 (NPR1); Human Natriuretic Peptide Receptor 1 (NPR1) ELISA Kit; ANPRA; ANPa; GUC2A; GUCY2A; NPR-A; Guanylate Cyclase A; Atrionatriuretic Peptide Receptor A; Atrial natriuretic peptide receptor type A; NPR1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Natriuretic Peptide Receptor 1 (NPR1). No significant cross-reactivity or interference between Natriuretic Peptide Receptor 1 (NPR1) and analogues was observed.
Sequence Length	1057
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	0.115ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Natriuretic Peptide Receptor 1 (NPR1) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Natriuretic Peptide Receptor 1 (NPR1) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
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 NPR1 elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Natriuretic Peptide Receptor 1 (NPR1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Natriuretic Peptide Receptor 1 (NPR1). 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 Natriuretic Peptide Receptor 1 (NPR1), 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 Natriuretic Peptide Receptor 1 (NPR1) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for NPR1 elisa kit	Cardiovascular biology

NCBI AND UNIPROT INFORMATION

NCBI GI #	148683193
NCBI GeneID	18160
UniProt Accession #	P18293
Molecular Weight	119,109 Da
NCBI Official Full Name	natriuretic peptide receptor 1
NCBI Official Synonym Full Names	natriuretic peptide receptor 1
NCBI Official Symbol	Npr1
NCBI Official Synonym Symbols	GC-A; NPRA; Pndr; NPR-A; AI893888
NCBI Protein Information	atrial natriuretic peptide receptor 1
UniProt Protein Name	Atrial natriuretic peptide receptor 1
UniProt Gene Name	Npr1
UniProt Synonym Gene Names	Npra; ANP-A; ANPR-A; NPR-A; GC-A
UniProt Entry Name	ANPRA_MOUSE

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/natriuretic-peptide-receptor-1-npr1/136282>