

## Recombinant Human NPR1 293 Cell Lysate

Cat. No. NPR1-3733HCL Lot. No. (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Antigen standard for natriuretic peptide receptor A/guanylate cyclase A (atriuretic peptide receptor A) (NPR1) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
<b>Components</b>	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
<b>Size</b>	0.1 mg
<b>Storage Instruction</b>	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.
<b>Applications</b>	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

mixture at room temperature for 30 min). Load 5 ug lysate per lane.

## GENE INFORMATION

<b>Gene Name</b>	NPR1 natriuretic peptide receptor A/guanylate cyclase A (atrionatriuretic peptide receptor A) [ Homo sapiens ]
<b>Official Symbol</b>	NPR1
<b>Synonyms</b>	NPR1; natriuretic peptide receptor A/guanylate cyclase A (atrionatriuretic peptide receptor A); ANPRA, NPRA; atrial natriuretic peptide receptor 1; ANPa; GUCY2A; GC-A; ANP-A; NPR-A; ANPR-A; guanylate cyclase A; natriuretic peptide receptor A; atrionatriuretic peptide receptor A; natriuretic peptide A type receptor; atrial natriuretic peptide receptor type A; NPRA; ANPRA; GUC2A;
<b>Gene ID</b>	4881
<b>mRNA Refseq</b>	NM_000906
<b>Protein Refseq</b>	NP_000897
<b>MIM</b>	108960
<b>UniProt ID</b>	P16066
<b>Chromosome Location</b>	1q21-q22
<b>Pathway</b>	Purine metabolism, organism-specific biosystem; Purine metabolism, conserved biosystem; Vascular smooth muscle contraction, organism-specific biosystem; Vascular smooth muscle contraction, conserved biosystem;

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**Function**

ATP binding; G-protein coupled peptide receptor activity; GTP binding; guanylate cyclase activity; hormone binding; natriuretic peptide receptor activity; nucleotide binding; peptide hormone binding; protein kinase activity; protein kinase binding; receptor activity; transferase activity, transferring phosphorus-containing groups;

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