Rabbit anti-Human Natriuretic Peptide Receptor A/GC-A/NPR1 Polyclonal Antibody | anti-NPR1 antibody

Anti-Natriuretic Peptide Receptor A/GC-A/NPR1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125413	**Rabbit**	**Human**	**ELISA, Immunofluorescence, Immunocytochemistry, Western Blot**

PRODUCT SYNONYMS

Natriuretic Peptide Receptor A/GC-A/NPR1; Polyclonal Antibody; Anti-Natriuretic Peptide Receptor A/GC-A/NPR1 Antibody; Atrial natriuretic peptide receptor 1; Atrial natriuretic peptide receptor type A; ANP-A; ANPR-A; NPR-A; Guanylate cyclase A; GC-A; NPR1; ANPRA; anti-NPR1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	1061
Applicable Applications for anti-NPR1 antibody	ELISA (Direct ELISA), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E Coli-derived human Natriuretic Peptide Receptor A/GC-A/NPR1 recombinant protein (Position: A58-K501).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen store at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



WB (Western Blot)
Figure 1. Western blot analysis of NPR1 using anti-NPR1 antibody.



IF (Immunofluorescence)

ADDITIONAL INFORMATION

Related Product Information for anti-NPR1 antibody	Description: Rabbit IgG polyclonal antibody for Natriuretic Peptide Receptor A/GC-A/NPR1 detection. Tested with WB, ICC/IF, Direct ELISA in Human. Background: Natriuretic peptide receptor A/guanylate cyclase A (atrionatriuretic peptide receptor A), also known as NPR1, is an atrial natriuretic peptide receptor. In humans it is encoded by the NPR1 gene. It is mapped to 1q21.3. Guanylyl cyclases, catalyzing the production of cGMP from GTP, are classified as soluble and membrane forms. The membrane guanylyl cyclases, often termed guanylyl cyclases A through F, form a family of cell-surface receptors with a similar topographic structure: an extracellular ligand-binding domain, a single membrane-spanning domain, and an intracellular region that contains a protein kinase-like domain and a cyclase catalytic domain. GC-A and GC-B function as receptors for natriuretic peptides; they are also referred to as atrial natriuretic peptide receptor A (NPR1) and type B. Also see NPR3, which encodes a protein with only the ligand-binding transmembrane and 37-amino acid cytoplasmic domains. NPR1 is a membrane-bound guanylate cyclase that serves as the receptor for both atrial and brain natriuretic peptides and BNP.
References	1. Ferrari, P., Weidmann, P., Ferrier, C., Dietler, R., Hollmann, R., Piso, R. J., Wey, J., Shaw, S. Dysregulation of atrial natriuretic factor in hypertension-prone man. J. Clin. Endocr. Metab. 71: 944-951, 1990. 2. Garbers, D. L., Lowe, D. G. Guanylyl cyclase receptors. J. Biol. Chem. 269: 30741-30744, 1994. 3. Kishimoto, I., Rossi, K., Garbers, D. L. A genetic model provides evidence that the receptor for atrial natriuretic peptide (guanylyl cyclase-A) inhibits cardiac ventricular myocyte hypertrophy. Proc. Nat. Acad. Sci. 98: 2703-2706, 2001.

NCBI AND UNIPROT INFORMATION

NCBI GI #	167830411
NCBI GeneID	4881
NCBI Accession #	NP_000897.3
NCBI GenBank Nucleotide #	NP_000897.3
UniProt Accession #	P16066
NCBI Official Full Name	atrial natriuretic peptide receptor 1
NCBI Official Synonym Full Names	natriuretic peptide receptor 1
NCBI Official Symbol	NPR1
NCBI Official Synonym Symbols	ANPa; NPRA; ANPRA; GUC2A; GUCY2A
NCBI Protein Information	atrial natriuretic peptide receptor 1
UniProt Protein Name	Atrial natriuretic peptide receptor 1
UniProt Gene Name	**NPR1**
UniProt Synonym Gene Names	ANPRA; ANP-A; ANPR-A; NPR-A; GC-A

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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