

NPR1 RABBIT PAB

Cat.#: S219654

Product Name: Anti-NPR1 Rabbit Polyclonal Antibody

Synonyms: ANPa, NPRA, ANPRA, GUC2A, GUCY3A

UNIPROT ID: P16066 (Gene Accession - NP_000897)

Background: 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 (NPR2; MIM 108961). Also see NPR3 (MIM 108962), 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 (ANP (MIM 108780) and BNP (MIM 600295), respectively).

Immunogen: Synthetic peptide of human NPR1

Applications: ELISA, IHC

Recommended Dilutions: IHC: 25-100; ELISA: 1000-5000

Host Species: Rabbit

Clonality: Rabbit Polyclonal

Isotype: Immunogen-specific rabbit IgG

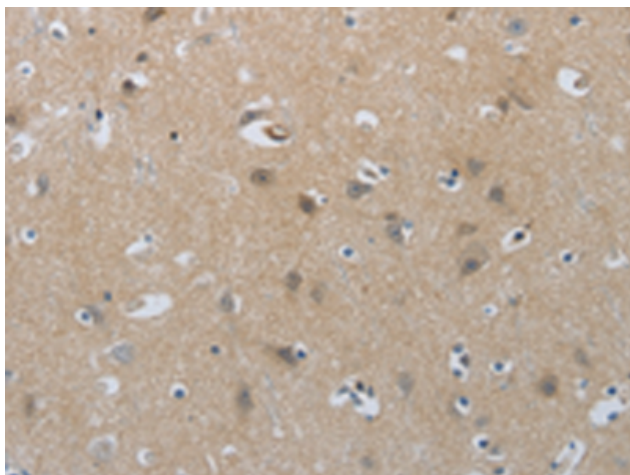
Purification: Antigen affinity purification

Species Reactivity: Human, Mouse, Rat

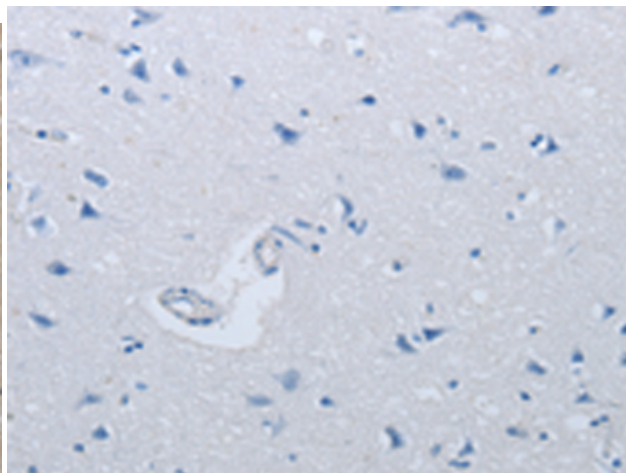
Constituents: PBS (without Mg²⁺ and Ca²⁺), pH 7.4, 150 mM NaCl, 0.05% Sodium Azide and 40% glycerol

Research Areas: Signal Transduction, Cardiovascular

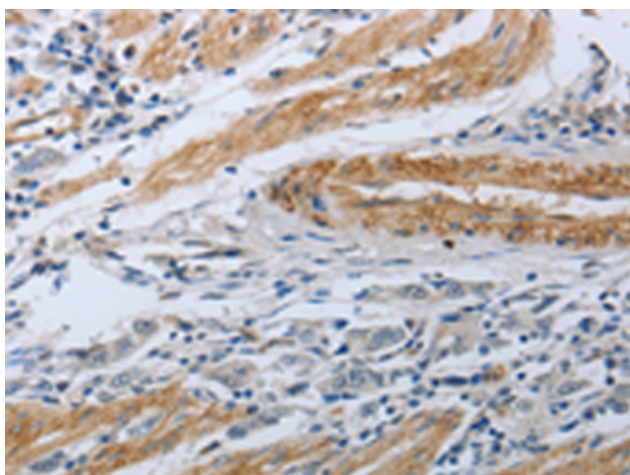
Storage & Shipping: Store at -20°C. Avoid repeated freezing and thawing



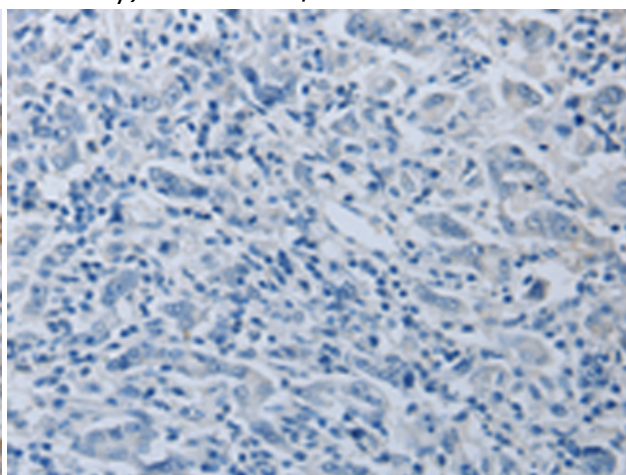
Immunohistochemistry analysis of paraffin embedded Human brain tissue using 219654(NPR1 Antibody) at a dilution of 1/30(Cytoplasm, Nucleus, Cell membrane).



In comparison with the IHC on the left, the same paraffin-embedded Human brain tissue is first treated with the synthetic peptide and then with 219654(Anti-NPR1 Antibody) at dilution 1/30.



The image on the left is immunohistochemistry of paraffin-embedded Human gastric cancer tissue using 219654(Anti-NPR1 Antibody) at a dilution of 1/30.



In comparison with the IHC on the left, the same paraffin-embedded Human gastric cancer tissue is first treated with synthetic peptide and then with D260091(Anti-NPR1 Antibody) at dilution 1/30.