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Product datasheet for TA323535

Natriuretic Peptide Receptor A (NPR1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	IHC: 25-100 Positive control: Human brain Predicted cell location: Cytoplasm, Nucleus, Cell membrane
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a region derived from 525-541 amino acids of Human natriuretic peptide receptor A/guanylate cyclase A (atrionatriuretic peptide receptor A)
Formulation:	PBS pH7.3, 0.05% NaN3, 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	natriuretic peptide receptor 1
Database Link:	NP_000897 Entrez Gene 18160 MouseEntrez Gene 24603 RatEntrez Gene 4881 Human P16066

View online »

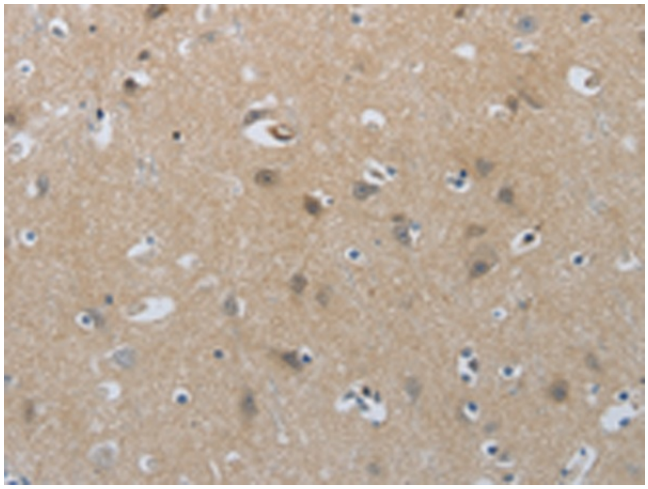
Background: Guanylyl cyclases; catalyzing the production of cGMP from GTP; are classified as soluble and membrane forms . The membrane guanylyl cyclases; often termed guanylyl cyclases A through F; form a family of cell-surface receptors with a similar topographic structure: an extracellular ligand-binding 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).

Synonyms: ANPa; ANPRA; GUC2A; GUCY2A; NPRA

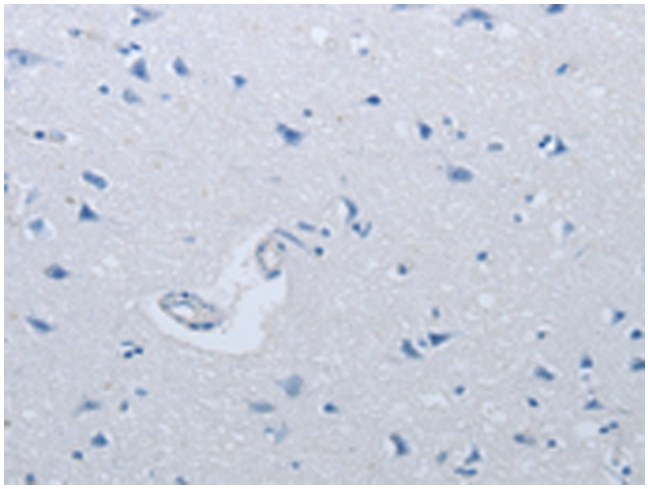
Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Purine metabolism, Vascular smooth muscle contraction

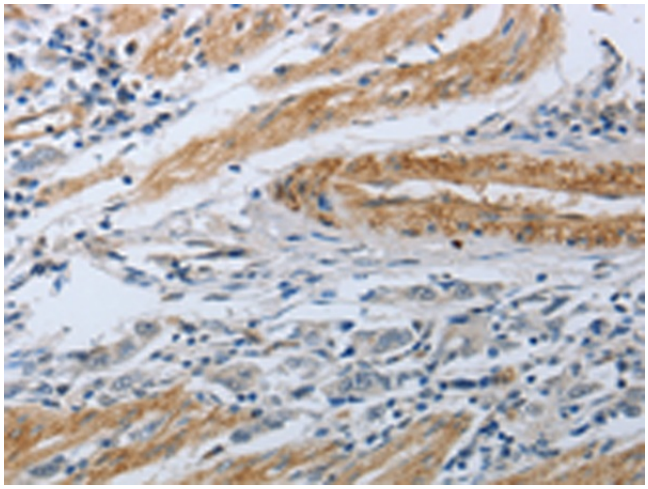
Product images:



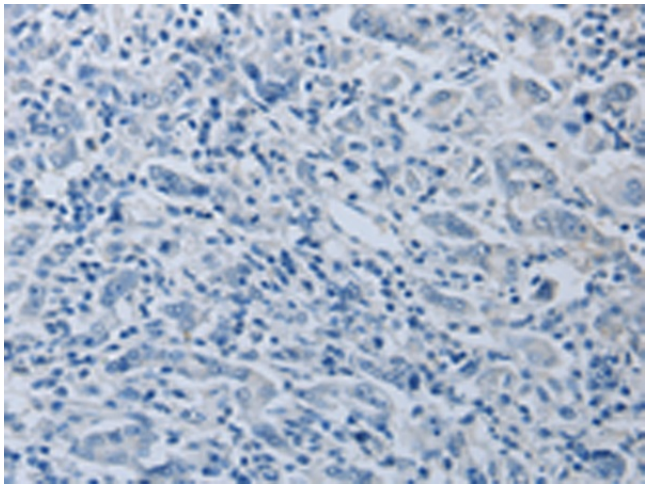
Immunohistochemistry of paraffin-embedded Human brain tissue using TA323535 (NPR1 Antibody) at dilution 1/30 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human brain tissue using TA323535 (NPR1 Antibody) at dilution 1/30, treated with synthetic peptide. (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human gastric cancer tissue using TA323535 (NPR1 Antibody) at dilution 1/30 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human gastric cancer tissue using TA323535 (NPR1 Antibody) at dilution 1/30, treated with synthetic peptide. (Original magnification: ×200)