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NPRC Rabbit pAb

Catalog # AP99112

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P17342
Other Accession	P17342
Reactivity	Human
Predicted	Rat, Mouse, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	59808
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human NPR-C
Epitope Specificity	301-400/541
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the ANF receptor family.
SUBUNIT	Homodimer; disulfide-linked. Dimers can also be formed through the C-terminal cysteine of isoform 2.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Natriuretic peptide receptor C does not exhibit guanylate cyclase activity. There seem to be at least three ANP receptors: two with guanylate cyclase activity (ANPA and ANPB) and one (ANPC) which is probably responsible for the clearance of ANP from the circulation without a role in signal transduction.

Additional Information

Gene ID	4883
Other Names	ANP-C; ANPR-C; ANPRC; BOMOS; C5orf23; GUCY2B; NPR-C; NPRC; EF-2; lgj; stri; ANP-CR; ANPRC_BOVIN; NPR3; Atrial natriuretic peptide clearance receptor; Atrial natriuretic peptide receptor type C (ANP-C | ANPR-C | NPR-C); ANPRC_HUMAN; ANPRC_MOUSE; ANPRC_RAT; natriuretic peptide receptor 3; chromosome 5 open reading frame 23; atrionatriuretic peptide receptor C; natriuretic peptide receptor C/guanylate cyclase C (atrionatriuretic peptide receptor C); natriuretic peptide receptor C; guanylate cyclase C
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	NPR3
Synonyms	ANPRC, C5orf23, NPRC
Function	Receptor for the natriuretic peptide hormones, binding with similar affinities atrial natriuretic peptide NPPA/ANP, brain natriuretic peptide NPPB/BNP, and C-type natriuretic peptide NPPC/CNP. May function as a clearance receptor for NPPA, NPPB and NPPC, regulating their local concentrations and effects. Acts as a regulator of osteoblast differentiation and bone growth by binding to its ligand osteocrin, thereby preventing binding between NPR3/NPR-C and natriuretic peptides, leading to increase cGMP production (By similarity).
Cellular Location	Cell membrane; Single-pass type I membrane protein

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.