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Natriuretic Peptide Receptor C Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8588b

Product Information

Application	WB, E
Primary Accession	P17342
Reactivity	Human, Rat, Mouse
Host	Mouse
Clonality	monoclonal
Isotype	IgG1,k
Clone Names	1748CT403.18.42
Calculated MW	59808

Additional Information

Gene ID	4883
Other Names	Atrial natriuretic peptide receptor 3, Atrial natriuretic peptide clearance receptor, Atrial natriuretic peptide receptor type C, ANP-C, ANPR-C, NPR-C, NPR3, ANPRC, C5orf23, NPRC
Target/Specificity	This Natriuretic Peptide Receptor C antibody is generated from a mouse immunized with a KLH conjugated synthetic peptide between 200-420 amino acids from the human region of human Natriuretic Peptide Receptor C.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Natriuretic Peptide Receptor C Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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

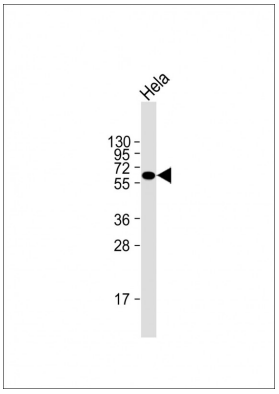
Background

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. May regulate diuresis, blood pressure and skeletal development. Does not have guanylate cyclase activity.

References

Lowe D.G.,et al.Nucleic Acids Res. 18:3412-3412(1990).
Porter J.G.,et al.Biochem. Biophys. Res. Commun. 171:796-803(1990).
Rae J.L.,et al.Submitted (NOV-1997) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Schmutz J.,et al.Nature 431:268-274(2004).

Images



Anti-Natriuretic Peptide Receptor C Antibody at 1:2000 dilution + Hela whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 60 kDa Blocking/Dilution buffer: 5% NFDM/TBST.