Recombinant Human NPR2

Cat. No. NPR2-30369TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 131-230 of Human Natriuretic Peptide Receptor B with an N terminal proprietary tag; Predicted MWt 36.63 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	This gene encodes natriuretic peptide receptor B, one of two integral membrane receptors for natriuretic peptides. Both NPR1 and NPR2 contain five functional domains: an extracellular ligand-binding domain, a single membrane-spanning region, and intracellularly a protein kinase homology domain, a helical hinge region involved in oligomerization, and a carboxyl-terminal guanylyl cyclase catalytic domain. The protein is the primary receptor for C-type natriuretic peptide (CNP), which upon ligand binding exhibits greatly increased guanylyl cyclase activity. Mutations in this gene are the cause of acromesomelic dysplasia Maroteaux type.
Molecular Weight	36.630kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	AKNDHYRTLVRTGPSAPKLGEFVVTLHGHFNWTARAALLYLDARTDDRPHYFTIEGV FEALQGSNLSVQHQVYAREPGGPEQATHFIRANGRIVYICGPL
Sequence Similarities	Belongs to the adenylyl cyclase class-4/guanylyl cyclase family.Contains 1 guanylate cyclase domain.Contains 1 protein kinase domain.

GENE INFORMATION

Gene Name	NPR2 natriuretic peptide receptor B/guanylate cyclase B (atrionatriuretic peptide receptor B) [Homo sapiens]
Official Symbol	NPR2
Synonyms	NPR2; natriuretic peptide receptor B/guanylate cyclase B (atrionatriuretic peptide receptor B); acromesomelic dysplasia, Maroteaux type , AMDM, ANPRB, NPRB; atrial natriuretic peptide receptor 2; ANPb; GUCY2B;
Gene ID	4882
mRNA Refseq	NM_003995
Protein Refseq	NP_003986
MIM	108961
Uniprot ID	P20594
Chromosome	9p21-p12

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Location	
Pathway	Purine metabolism, organism-specific biosystem; Purine metabolism, conserved biosystem; Vascular smooth muscle contraction, organism-specific biosystem; Vascular smooth muscle contraction, conserved biosystem;
Function	ATP binding; GTP binding; guanylate cyclase activity; hormone binding; identical protein binding;

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