

## Recombinant Human NPR2 protein, GST-tagged

**Cat. No.** NPR2-323H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Recombinant Human NPR2(1 a.a. - 1023 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.   |
| <b>Species</b>          | Human  |
| <b>Source</b>           | Wheat Germ   |
| <b>ProteinLength</b>    | 1-1023 a.a.  |
| <b>Description</b>      | 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. |
| <b>Form</b>             | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.   |
| <b>Molecular Mass</b>   | 140.5 kDa  |
| <b>AA Sequence</b>      | MALPSLLLLVAALAGGVRPPGARNLTLAVVLPEHNLSYAWAWPRVGPVALAVEAL<br>GRALPVDLRFVSSELEGAC SEYLAPLSAVDLKLYHDPDLLLGPQCVYPAASVARFA<br>SHWRLPLLTAGAVASGFSKNDHYRTLVRTGPSAPKLG EFVVTLLHGHNWTARAA  |

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LLYLDARTDDDRPHYFTIEGVFEALQGSNLSVQHQVYAREPGGPEQATHFIRANGRIV  
 Y ICGPLEMLHEILLQAQRENLTNGDYVFFYLDVFGESLRAGPTRATGRPWQDNRT  
 EQAALREAFQTVLVITYRE PPNPEYQEFQNRLLIRAREDFGVELGPSLMNLIAGCF  
 YDGILLYAEVLNETIQEGGTREDGLRIVEKMQGRRYHG VTGLVVMKNDNDREDFV  
 LWAMGDLDSGDFQPAAHYSGAEKQIWWTGRPIPWVKGAPPSDNPPCAFDLDDPS  
 CDK TPLSTLAIVALGTGITFIMFGVSSFLIFRKLMLLEKELASMLWRIRWEELQFGNSE  
 RYHKGAGSRLTSLRGSSYG SLMTAHGKYQIFANTGHFKGNVVAIKHVNKKRIELTR  
 QVLFELKHMRDVQFNHLTRFIGACIDPPNICIVTEYCP RGSLQGM AFLHNSIISSHGS  
 LKSSNCVVDSRFVLKITDYGLASFRSTAEPDDSHALYAKKLWTAPPELLSGNPLPT TG  
 MQKADVVSFGIILQEIALRSGPFYLEGLDLSPEIVQKVRNGQRPYFRPSIDRTQLNE  
 ELVLLMERCWAQDPA ERPDFGQIKGFIRRFNKEGGTSILDNLLL RMEQYANNLEKLV  
 EERTQAYLEEKRKAEALLYQILPHSVAEQLKRG ETVQAEAFDSVTIYFSDIVGFTALS  
 AESTPMQVVTLNDLYTCFDAIDNFDVYK VETIGDAYMVVSGLPGRNGQ RHAPEIA  
 RMALALLDAVSSFRIRHRPHDQLRLRIGVHTGPVCAGVVGLKMPRYCLFGDTVNTA  
 SRMESNGQALKI HVSSTTKDALDELGCFQLELRGDVEMKGGKGMRTYWLLGERKG  
 PPGLL

**Applications**

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);  
Antibody Production; Protein Array

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

## GENE INFORMATION

**Gene Name**

NPR2 natriuretic peptide receptor B/guanylate cyclase B (atrio-natriuretic peptide receptor B) [ Homo sapiens ]

**Official Symbol**

NPR2

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|                            |   |
|----------------------------|---|
| <b>Synonyms</b>            | NPR2; natriuretic peptide receptor B/guanylate cyclase B (atrionatriuretic peptide receptor B); acromesomic dysplasia, Maroteaux type , AMDM, ANPRB, NPRB; atrial natriuretic peptide receptor 2; ANPb; GUCY2B; GC-B; ANP-B; NPR-B; ANPR-B; guanylate cyclase B; atrial natriuretic peptide B-type receptor; atrial natriuretic peptide receptor type B; AMDM; NPRB; ANPRB; GUC2B; NPRBi; |
| <b>Gene ID</b>             | <a href="#">4882</a>  |
| <b>mRNA Refseq</b>         | <a href="#">NM_003995</a>   |
| <b>Protein Refseq</b>      | <a href="#">NP_003986</a>   |
| <b>MIM</b>                 | <a href="#">108961</a>  |
| <b>UniProt ID</b>          | <a href="#">P20594</a>  |
| <b>Chromosome Location</b> | 9p21-p12  |
| <b>Pathway</b>             | Purine metabolism, organism-specific biosystem; Purine metabolism, conserved biosystem; Vascular smooth muscle contraction, organism-specific biosystem; Vascular smooth muscle contraction, conserved biosystem;   |
| <b>Function</b>            | ATP binding; GTP binding; guanylate cyclase activity; hormone binding; identical protein binding; natriuretic peptide receptor activity; nucleotide binding; peptide hormone binding; protein kinase activity; receptor activity; transferase activity, transferring phosphorus-containing groups; transmembrane signaling receptor activity;   |

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