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Product Information

MemDX™ Membrane Protein Human NPR2 (Natriuretic peptide receptor 2) Full Length

Cat. No.: **MPC2241K**
This product is for research use only and is not intended for diagnostic use.

This product is a 117 kDa Human NPR2 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species
Human

Target Protein
NPR2

Protein Length
Full length

Protein Class
Receptor

Molecular Weight
117 kDa

TMD
1

Sequence
MALPSLLLLVAALAGGVRPPGARNLTLAVVLPEHNLSYAWAWPRVGPAVA
LAVEALGRALPVDLRFVSSELEGACSEYLAPLSAVDLKLYHDPDLLLGPG
CVYPAASVARFASHWRLPLLTAGAVASGFSAKNDHYRTLVRTGPSAPKLG
EFVVTLHGHFNWTARAALLYLDARTDDRPHYFTIEGVFEALQGSNLSVQH
QVYAREPGGPEQATHFIRANGRIVYICGPLEMLHEILLQAQRENLTNGDY
VFFYLDVFGESLRAGPTRATGRPWQDNRTREQAQALREAFQTVLVITYRE
PPNPEYQEFQNRLLIRAREDFGVELGPSLMNLIAGCFYDGILLYAEVLNE
TIQEGGTREDGLRIVEKMQGRRYHGVTGLVVMDKNNDRETDFVLWAMGDL
DSGDFQPAAHYSGAEKQIWWTGRPIPWVKGAPPSDNPPCAFDLDDPSCDK
TPLSTLAIVALGTGITFIMFGVSSFLIFRKLMLEKELASMLWRIRWEELQ
FGNSERYHKGAGSRLTLSLRGSSYGSLMTAHGKYQIFANTGHFKGNVVAI
KHVNKKRIELTRQVLFELKHMRDVQFNHLTRFIGACIDPPNICIVTEYCP
RGSLQDILENDSINLDWMFRYSLINDLVKGMAFLHNSIISSHGSLKSSNC
VVDSRFVLKITDYGLASFRSTAEPDDSHALYAKKLWTAPELLSGNPLPTT
GMQKADVYSFGIILQEIALRSGPFYLEGLDLSPKEIVQKVRNGQRPYFRP
SIDRTQLNEELVLLMERCWAQDPAERPDFGQIKGFIRRFNKEGGTSILDN
LLLRMEQYANNLEKLVEERTQAYLEEKRKAEALLYQILPHSVAEQLKRGE
TVQAEAFDSVTIYFSDIVGFTALSAESTPMQVVTLLNDLYTCFDAIIDNF
DVYKVETIGDAYMVVSGLPGRNGQRHAPEIARMALALLDAVSSFRIRHRP
HDQLRLRIGVHTGPVCAGVVGLKMPRYCLFGDTVNTASRMESNGQALKIH
VSSTTKDALDELGCFQLELRGDVEMKGKGKMRTYWLLGERKGPPGLL

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

NPR2

Full Name

Natriuretic peptide receptor 2

Introduction

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.

Alternative Names

NPR2; GCB; AMDM; ANPb; ECDM; GC-B; NPRB; SNSK; ANPRB; GUC2B; NPRBi; GUCY2B; atrial natriuretic peptide receptor 2; atrial natriuretic peptide B-type receptor; atrial natriuretic peptide receptor type B; guanylate cyclase 2B; guanylate cyclase B; guanylyl cyclase B; natriuretic peptide receptor B/guanylate cyclase B (atrionatriuretic peptide receptor B); Natriuretic peptide receptor 2

Gene ID

4882

UniProt ID

P20594

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