ADRBK2 cDNA Clone – Adrenergic, Beta, Receptor Kinase 2 (Human)

PRODUCT OVERVIEW

Product Name	ADRBK2, cDNA Clone
Full Product Name	ADRBK2 cDNA Clone
Product Gene Name	ADRBK2 cdna clone
Sequence	atggcggacc tggaggctgt gctggccgat gtcagttacc tgatggccat ggagaagagc aaggcgaccc cggccgcccg cgccagcaag aggatcgtcc tgccggagcc cagtatccgg agtgtgatgc agaagtacct tgcagagaga aatgaaataa cctttgacaa gattttcaat cagaaaattg gtttcttgct atttaaagat ttttgtttga atgaaattaa tgaagctgta cctcaggtga agttttatga agagataaag gaatatgaaa aacttgataa tgaggaagac cgcctttgca gaagtcgaca aatttatgat gcctacatca tgaaggaact tctttcctgt tcacatcctt tctcaaagca agctgtagaa cacgtacaaa gtcatttatc caagaaacaa gtgacatcaa ctcttttca gccatacata gaagaaattt gtgaaagcct tcgaggtgac atttttcaaa aatttatgga aagtgacaag ttcactagat tttgtcagtg gaaaaacgtt gaattaaata tccatttgac catgaatgag ttcagtgtgc ataggattat tggacgagga ggattcgggg aagtttatgg ttgcaggaaa gcagacactg gaaaaatgta tgcaatgaaa tgcttagata agaagaggat caaaatgaaa caaggagaaa cattagcctt aaatgaaaga atcatgttgt ctcttgtcag cacaggagac tgtcctttca ttgtatgtat gacctatgcc ttccataccc cagataaact ctgcttcatc ctggatctga tgaacggggg cgatttgcac taccaccttt cacaacacgg tgtgttctct gagaaggaga tgcggtttta tgccactgaa atcattctgg gtctggaaca catgcacaat cggtttgttg tctacagaga tttgaagcca gcaaatattc tcttggatga acatggacac gcaagaatat cagatcttgg tcttgcctgc gatttttcca aaaagaagcc tcatgcgagt gttggcaccc atgggtacat ggctcccgag gtgctgcaga aggggacggc ctatgacagc agtgccgact ggttctccct gggctgcatg cttttcaaac ttctgagagg atga
Molecular Weight	79,710 Da
OMIM	109636
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ADRBK2 cdna clone	MBS1272039 is a cDNA clone targeting ADRBK2.
Other Notes	Small volumes of ADRBK2 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ADRBK2. It may not necessarily be applicable to this product.

NCBI GI #	22477867
NCBI GeneID	157
NCBI Accession #	BC036797
UniProt Secondary Accession #	Q9UGW9
UniProt Related Accession #	P35626
NCBI Official Full Name	Homo sapiens adrenergic, beta, receptor kinase 2, mRNA
NCBI Official Synonym Full Names	G protein-coupled receptor kinase 3
NCBI Official Symbol	GRK3
NCBI Official Synonym Symbols	BARK2; ADRBK2
UniProt Protein Name	Beta-adrenergic receptor kinase 2

UniProt Synonym Protein Names	G-protein-coupled receptor kinase 3
Protein Family	Beta-adrenergic receptor kinase
UniProt Gene Name	ADRBK2
UniProt Synonym Gene Names	BARK2; GRK3; Beta-ARK-2
UniProt Entry Name	ARBK2_HUMAN
NCBI Protein Information	beta-adrenergic receptor kinase 2
NCBI Summary for ADRBK2	The beta-adrenergic receptor kinase specifically phosphorylates the agonist-occupied form of the beta-adrenergic and related G protein-coupled receptors. Overall, the beta adrenergic receptor kinase 2 has 85% amino acid similarity with beta adrenergic receptor kinase 1, with the protein kinase catalytic domain having 95% similarity. These data suggest the existence of a family of receptor kinases which may serve broadly to regulate receptor function. [provided by RefSeq, Jul 2008]
UniProt Comments for ADRBK2	GRK3: Specifically phosphorylates the agonist-occupied form of the beta-adrenergic and closely related receptors. Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. GPRK subfamily. Protein type: Kinase, protein; EC 2.7.11.15; Protein kinase, AGC; Protein kinase, Ser/Thr (non-receptor); AGC group; GRK family; BARK subfamily Chromosomal Location of Human Ortholog: 22q12.1 Cellular Component: plasma membrane Molecular Function: beta-adrenergic receptor kinase activity; protein kinase activity Biological Process: receptor internalization
Research Articles on ADRBK2	**1.** effects of GRK3 modulation appear to be specific to chemokine-mediated migration behaviors without influencing tumor cell proliferation or survival
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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