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Product datasheet for TP329431

GPR124 (ADGRA2) (NM_032777) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human G protein-coupled receptor 124 (GPR124), 20 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC229431 representing NM_032777
Red=Cloning site Green=Tags(s)

MGAGGRRMRGAPARLLLPLLPWLLLLLAPEARGAPGCPLSIRSCKCSGERPKGLSGGVPGPARRRVVCSG
GDLPEPPEPGLLPNGTVTLLLSNNKITGLRNGSFLGLSLLEKLDLRNNIISTVQPGAFLGLGELKRLDLS
NNRIGCLTSETFQGLPRLLRLNISGNIFSSLQPGVFDELPALKVVDLGTEFLTCDCHLRWLLPWAQNRSL
QLSEHTLCAYPSALHAQALGSLQEAQLCCEGALELHTHHLIPSLRQVVFQGDRLPFQCSASYLGNDTRIR
WYHNRAPVEGDEQAGILLAESLIHDCTFITSELTLSHIGVWASGEWECTVSMAQGNASKKVEIVVLETSA
SYCPAERVANNRGDFRWPRTLAGITAYQSCLQYPFTSVPLGGGAPGTRASRRCDRAGRWEPGDYSHCLYT
NDITRVLYTFVLMPINASNALTLAHQLRVYTAEAASFSDMMDVVYVAQMIQKFLGYVDQIKELVEVMVDM
ASNLMLVDEHLLWLAQREDKACSRIVGALERIGGAALSPHAQHISVNARNVALEAYLIKPHSYVGLTCTA
FQRREGGVPGTRPGSPGQNPPPEPEPPADQQLRFRCTTGRPNVSLSSFHIKNSVALASIQLPPSLFSSLP
AALAPPVPPDCTLQLLVFRNGRLFHSHSNTSRPGAAGPGKRRGVATPVIFAGTSGCGVGNLTEPVAVSLR
HWAEGAEPVAAWWSQEGPGEAGGWTSEGCQLRSSQPNVSALHCQHLGNVAVLMELSAFPREVGGAGAGLH
PVVYPCTALLLLCLFATIITYILNHSSIRVSRKGWHMLLNLCFHIAMTSAVFAGGITLTNYQMVCQAVGI
TLHYSSLSTLLWMGVKARVLHKELTWRAPPPQEGDPALPTPSPMLRFYLIAGGIPLIICGITAAVNIHNY
RDHSPYCWLVWRPSLGAFYIPVALILLITWIYFLCAGLRLRGPLAQNPKAGNSRASLEAGEELRGSTRLR
GSGPLLSDSGSLLATGSARVGTPGPPEDGDSLYSPGVQLGALVTTHFLYLAMWACGALAVSQRWLPRVVC
SCLYGVAASALGLFVFTHHCARRRDVRASWRACCPPASPAAPHAPPRALPAAAEDGSPVFGEGPPSLKSS
PSGSSGHPLALGPCKLTNLQLAQSQVCEAGAAAGGEGEPEPAGTRGNLAHRHPNNVHHGRRAHKSRAKGH
RAGEACGKNRLKALRGGAAGALELLSSESGSLHNSPTDSYLGSSRNSPGAGLQLEGEPMLTPSEGSDTSA
APLSEAGRAGQRRSASRDSLKGGGALEKESHRRSYPLNAASLNGAPKGGKYDDVTLMGAEVASGGCMKTG
LWKSETTV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 142.5 kDa

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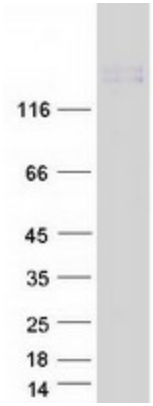
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	NULL or Add: Recombinant proteins was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_116166
Locus ID:	25960
UniProt ID:	Q96PE1, Q6YN44
Cytogenetics:	8p11.23
RefSeq ORF:	4014
Synonyms:	GPR124; TEM5
Summary:	Endothelial receptor which functions together with RECK to enable brain endothelial cells to selectively respond to Wnt7 signals (WNT7A or WNT7B) (PubMed:28289266, PubMed:30026314). Plays a key role in Wnt7-specific responses, such as endothelial cell sprouting and migration in the forebrain and neural tube, and establishment of the blood-brain barrier (By similarity). Acts as a Wnt7-specific coactivator of canonical Wnt signaling: required to deliver RECK-bound Wnt7 to frizzled by assembling a higher-order RECK-ADGRA2-Fzd-LRP5-LRP6 complex (PubMed:30026314). ADGRA2-tethering function does not rely on its G-protein coupled receptor (GPCR) structure but instead on its combined capacity to interact with RECK extracellularly and recruit the Dishevelled scaffolding protein intracellularly (PubMed:30026314). Binds to the glycosaminoglycans heparin, heparin sulfate, chondroitin sulfate and dermatan sulfate (PubMed:16982628).[UniProtKB/Swiss-Prot Function]
Protein Families:	Druggable Genome, Transmembrane

Product images:



Coomassie blue staining of purified ADGRA2 protein (Cat# TP329431). The protein was produced from HEK293T cells transfected with ADGRA2 cDNA clone (Cat# [RC229431]) using MegaTran 2.0 (Cat# [TT210002]).