

## Product datasheet for TP329431L

### GPR124 (ADGRA2) (NM\_032777) Human Recombinant Protein

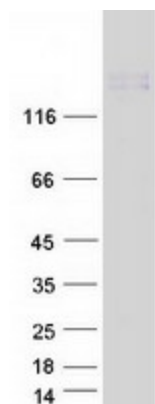
#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human G protein-coupled receptor 124 (GPR124), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC229431 representing NM_032777 Red=Cloning site Green=Tags(s)
	<p>MGAGRRMRGAPARLLLPLLPWLLLLLAPEARAGAPGCPLSIRSCKCSGERPKGLSGGVPGPARRRVCSG            GDLPEPPEPGLLPNGTVTLLSNNKITGLRNGSFLGLSLEKLDLRNNIISTVQPGAFLGLGELKRLDLS            NNRIGCLTSETFQGLPRLRLNISGNIFSSLQPGVFDELPAKVVLDLGTFLTCDCHLRWLLPWAQNRS            QLSEHTLCAYPSALHAQALGSLQEAQLCCEGALELHTHHLLPSLRQVVFQGDRLPFQCSASYLGNDTRIR            WYHNRAPEVEGDEQAGILLAESLIHDCTFITSELTLSHIGVWASGEWECTVSMAQGNASKKVEIVLETS            SYCPAERVANNRGRDFRWPRTLITAYQSCLQYPFTSVPLGGGAPGTRASRRCDRAGRWEVPGDYSHCLY            NDITRVLYTFVLMPINASNALTLAHQLRVYTAEAASFSDMMDVVVAQMIQKFLGYVDQIKELVEVMVDM            ASNLMLVDEHLLWLAQREDKACSRIVGALERIGGAALSPHAQHISVNARNVALEYLIKPHSYVGLTCTA            FQRREGGVPGRTPGSPGQNPPEPEPPADQQLRFRCTTGRPNVLSLSSFHINKNSVALASIQLPPSLFSSLP            AALAPPVPPDCTLQLLVFRNGRLFHSHSNTSRPGAAGPGKRRGVATPVIFAGTSGCGVGNLTPVAVSLR            HWAEGAEPVAAWWSQEGPGEAGGWTSEGCQLRSSQPNVSALHCQHLGNVAVLMELSAFPREVGAGAGLH            PVVYPCTALLLLCLFATIITYILNHSSIRVSRKGMHLLNLCFHAMTSAVFAGGITLTNYQMVCQAVGI            TLHYSSLSTLLWMGVKARVLHKELTWRAPPPEQEGDPALPTPSPMLRFYLIAGGIPLIICGITAAVNIHNY            RDHSPYCWLWVRPSLGAFYIPVALILLITWIYFLCAGLRLRGPLAQNPKAGNSRASLEAGEELRGSTRLR            GSGPLLSDSGSLLATGSARVGTGPPEDGDSLYSPGVQLGALVTTHFLYLAMWACGALAVSQRWLPRVVC            SCLYGVAASALGLFVFTTHCARRRDVRSWRACPPASPAAPHAPRALAAAEDGSPVFGEGPPSLKSS            PSGSSGHPLALGPCKLTNLQLAQSQVCEAGAAAGGEGEPEPAGTRGNLAHRHPNNVHHGRRRAHKSRAKGH            RAGEACGNRLKALRGGAGALELLSSESGSLHNSPTDSYLGSSRNSPGAGLQLEGEPMLTPSEGSDTSA            APLSEAGRAGQRRSASRDSLKGGGALEKESHRSYPLNAASLNGAPKGGKYDDVTLMGAEVASGGCMKTG            LWKSETTV</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-Myc/DDK
Predicted MW:	142.5 kDa



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<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	NULL or Add: Recombinant proteins was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_116166</a>
<b>Locus ID:</b>	25960
<b>UniProt ID:</b>	<a href="#">Q96PE1</a> , <a href="#">Q6YN44</a>
<b>Cytogenetics:</b>	8p11.23
<b>RefSeq ORF:</b>	4014
<b>Synonyms:</b>	GPR124; TEM5
<b>Summary:</b>	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]
<b>Protein Families:</b>	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]).