

## Product datasheet for TP522754

### Adgra2 (NM\_054044) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse adhesion G protein-coupled receptor A2 (Adgra2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR222754 protein sequence Red=Cloning site Green=Tags(s)
	<p>MPVPPARLLLLPLLPCLLLLAPGTRGAPGCPVPIRGCKCSGERPKGLSGGAHNPARRRVWCGGGDLPEPP DPGLLPNGTITLLLSNNKITGLRNGSFLGLSLEKLDLRSNVISTVQPGAFGLGELKRLDLSNNRIGCL TSETFQGLPRLLRLNISGNIYSSLQPGVFDELPAKIVDFGTEFLTCDCLRLLPWARNHSLQLSERTL CAYPSALHAHALSSLQESQLRCEGALHLYTHYLIPSLRQVWFQGDRLPFQCSASYLGNDRITRIHWYHNGAP MESDEQAGIVLAENLIHDCTFITSELTLSHIGVWASGEWECVSTVQGNSTSKKVEIIVLETSASYCPAER VTNNRGRDFRWPRTLAGEITAYQSCLQYPFTSVPLSGGAPGTRASRRCDRAGRWEPEGDYSHCLYTNIDITRVL YTFVLPINASNALTAHQLRVYTAEAASFSDMMDWVYAQMIQKFLGYVDQIKELVEVMVDMASNLMLV DEHLLWLAQREDKACSGIVGALERIGGAALSPHAQHISVNSRVALEAYLIKPHSYVGLTCTAFQRREVG VSGAQSSVQDAPVEPEPLADQQLRFRCTTGRPNISLSSFHKNVALASIQPLPSLFSTLPAALAPPV PPDCTLQLLVFRNGRLFRSHGNNTSRPGAAGPGKRRGVATPVIFAGTSGCGVGNLTPVAVSLRHWAEGA DPMAAWWNQDGPGGWSSEGCRRLRYSQPNVSSLYCQHLGNVAVLMELNAFPREAGGSGAGLHPVVPCTAL LLCLFSTIITYILNHSSIHVSRKGMHLLNLCFHMAMTSAVAVFVGGVTLTNYQMVCQAVGITLHYSSLSS LLWMGVKARVLHKELSWRAPPEEGEAAPPGPRPMLRFYLIAGGIPLIICGITAAVNIHNYRDHSPYCWL VWRPSLGAFYIPVALILPITWIYFLCAGLHLRSHVAQNPKQGNRISLEPGEELRGSTRLRSSGVLLNDSG SLLATVSAGVGTAPPEDGDGVYSPGVQLGALMTTHFLYLAMWACGALAVSQRWLPVVCCLYGVAAASA LGLFVFTHHCARRRDVRASWRACPPASPSASHVPTATEDGSPVLGEGPASLKSSPSGSSGRAPP PPCKLTNLQVAQSQVCEASVAARGDGEPEPTGSRGSLAPRHHNNLHHGRRVHKSRAKGHRAGETGGKSRL KALRAGTSPGAPELLSSGSLHNSPDSYPGSSRNSPGDGLPLEGEPMLTPSEGSDTSAPIAETGRPG QRRSASRDNLKGGSGALERESKRRSYPLNTTSLNGAPKGGKYEDASVTGAEAIAGGSMKTGLWKSETTV</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>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 after receiving vials.
<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_473385</a>
<b>Locus ID:</b>	78560
<b>UniProt ID:</b>	<a href="#">Q91ZV8</a>
<b>RefSeq Size:</b>	5520
<b>Cytogenetics:</b>	8 A2
<b>RefSeq ORF:</b>	3990
<b>Synonyms:</b>	8430414O08Rik; 9530074E10Rik; Gpr124; mKIAA1531; 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:25373781, PubMed:25558062, PubMed:28803732). 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 (PubMed:21071672, PubMed:21282641, PubMed:21421844, PubMed:25373781, PubMed:28288111). 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 (By similarity). 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 (By similarity). Binds to the glycosaminoglycans heparin, heparin sulfate, chondroitin sulfate and dermatan sulfate (By similarity).[UniProtKB/Swiss-Prot Function]