



Anti-GRM1 (aa 1115-1130) polyclonal antibody (CPBT-66129RR)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview This product recognises rat metabotropic glutamate receptor 1a (mGluR1a). The metabotropic glutamate receptors have been organised into three groups. mGluR5 and mGluR1 make up group I which, when activated, stimulates phospholipase C and activates protein kinase C to hydrolyse phosphoinositide phospholipids in the cell membrane. Group I mGluRs, but not other groups, are activated by 3, 5-dihydroxyphenylglycine (DHPG). Western Blotting detects bands of approximately 125kDa (monomer) and 250kDa (dimer) on lysate from transfected HEK293 cells. This antibody has also been reported to detect bands at approximately 120kDa (reduced) and 210kDa (non-reduced), in protein extracts from adult rat cerebellum.

Specificity	METABOTROPIC GLUTAMATE RECEPTOR 1a
Immunogen	Peptide corresponding to amino acids 1115-1130 from the C-terminal region of rat mGluR1a.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Rat
Conjugate	Unconjugated
Applications	IHC-Fr; WB
Format	Purified IgG - liquid
Size	100 µl
Preservative	0.09% Sodium Azide
Storage	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a

precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	Grm1 glutamate receptor, metabotropic 1 [Rattus norvegicus (Norway rat)]
Official Symbol	GRM1
Synonyms	GRM1; glutamate receptor, metabotropic 1; Gprc1a; metabotropic glutamate receptor 1; mGluR1; G protein coupled receptor family C group 1 member A; METABOTROPIC GLUTAMATE RECEPTOR 1A;
Entrez Gene ID	24414
Protein Refseq	NP_001107802
UniProt ID	P23385
Chromosome Location	1p13
Pathway	Calcium signaling pathway; Class C/3 (Metabotropic glutamate/pheromone receptors); Defective ACTH causes Obesity and Pro-opiomelanocortinin deficiency (POMCD); Disease; Estrogen signaling pathway; FoxO signaling pathway; G alpha (q) signalling events; GPCR downstream signaling;
Function	G-protein coupled receptor activity; PLC activating G-protein coupled glutamate receptor activity; estrogen receptor binding; glutamate receptor activity; identical protein binding; protein binding;