Datasheet for ABIN652203

anti-Metabotropic Glutamate Receptor 1 antibody (C-Term)

2 Images

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Overview

Quantity:	400 µL
Target:	Metabotropic Glutamate Receptor 1 (GRM1)
Binding Specificity:	AA 1096-1126, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Metabotropic Glutamate Receptor 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This Metabotropic Glutamate Receptor 1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1096-1126 amino acids from the C-terminal region of human Metabotropic Glutamate Receptor 1.
Clone:	RB4619
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	Metabotropic Glutamate Receptor 1 (GRM1)
Alternative Name:	Metabotropic Glutamate Receptor 1 (GPRC1A) (GRM1 Products)

Target Details

Background:	L-glutamate is the major excitatory neurotransmitter in the central nervous system and activates both ionotropic and metabotropic glutamate receptors. Glutamatergic neurotransmission is involved in most aspects of normal brain function and can be perturbed in many neuropathologic conditions. The metabotropic glutamate receptors are a family of G protein-coupled receptors, that have been divided into 3 groups on the basis of sequence homology, putative signal transduction mechanisms, and pharmacologic properties. Group I includes GRM1 (also known as GPRC1A) and GRM5 and these receptors have been shown to activate phospholipase C. Group II includes GRM2 and GRM3 while Group III includes GRM4, GRM6, GRM7 and GRM8. Group II and III receptors are linked to the inhibition of the cyclic AMP cascade but differ in their agonist selectivities. The activity of GRM1 is mediated by a G-protein that activates a phosphatidylinositol-calcium second messenger system. This protein may participate in the central action of glutamate in the CNS, such as long-term potentiation in the hippocampus and long-term depression in the cerebellum
Molecular Weight:	132357
Gene ID:	2911
NCBI Accession:	NP_001264993, NP_001264994, NP_001264995, NP_001264996
UniProt:	Q13255

Application Details

Application Notes:	WB: 1:1000. WB: 1:1000. IHC-P: 1:10~50
Restrictions:	For Research Use only

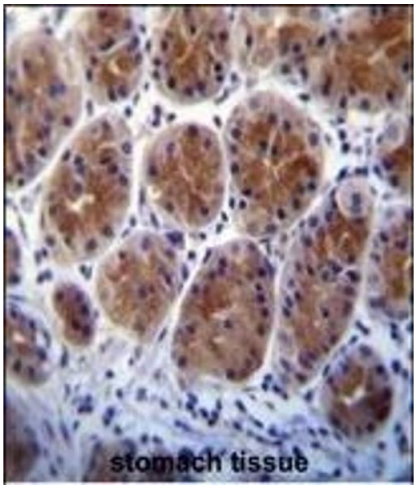
Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.Preca

Handling

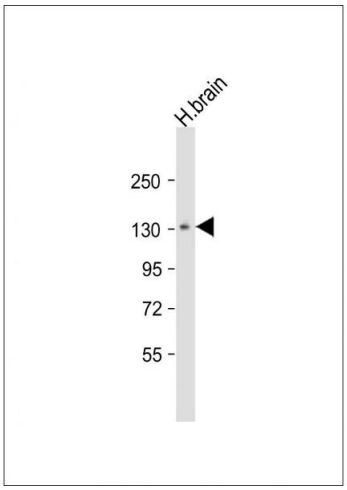
Expiry Date:	6 months

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Metabotropic Glutamate Receptor 1 (GPRC1A) Antibody (C-term) (ABIN652203 and ABIN2840752) immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of Metabotropic Glutamate Receptor 1 (GPRC1A) Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Western Blotting

Image 2. GPRC1A Antibody (ABIN652203 and ABIN2840752) western blot analysis in CEM,NCI-,NCI- cell line lysates (35 µg/lane).This demonstrates the GPRC1A antibody detected the GPRC1A protein (arrow).

