

## Product datasheet

# Anti-Metabotropic Glutamate Receptor 5 antibody ab53090

★★★★☆ 15 Abreviews 10 References 4 图像

### 概述

产品名称	Anti-Metabotropic Glutamate Receptor 5抗体
描述	兔多克隆抗体to Metabotropic Glutamate Receptor 5
宿主	Rabbit
特异性	ab53090 detects endogenous levels of total Metabotropic Glutamate Receptor 5 protein.
经测试应用	适用于: IHC-Fr, ICC/IF, IHC-P, ELISA, WB
种属反应性	与反应: Mouse, Rat, Chicken, Human
免疫原	N-terminal synthetic peptide derived from human Metabotropic Glutamate Receptor 5.
阳性对照	WB: Mouse brain extracts IHC-P: Human brain tissue

### 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS, 150mM Sodium chloride, pH 7.4
纯度	Immunogen affinity purified
纯化说明	ab53090 was affinity purified from rabbit antiserum by affinity chromatography using epitope specific immunogen.
克隆	多克隆
同种型	IgG

### 应用

Our [Abpromise guarantee](#) covers the use of **ab53090** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
IHC-Fr	★★★★☆	Use at an assay dependent concentration. PubMed: 22962568

应用	Ab评论	说明
ICC/IF	★★★★☆	1/100. PubMed: 19364772
IHC-P	★★★★☆	1/50 - 1/100.
ELISA		1/5000.
WB		1/300 - 1/1000. Predicted molecular weight: 132 kDa.

## 靶标

### 功能

G-protein coupled receptor for glutamate. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors. Signaling activates a phosphatidylinositol-calcium second messenger system and generates a calcium-activated chloride current. Plays an important role in the regulation of synaptic plasticity and the modulation of the neural network activity.

### 序列相似性

Belongs to the G-protein coupled receptor 3 family.

### 细胞定位

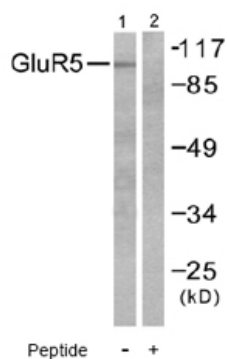
Cell membrane.

## 图片



Immunocytochemistry - Anti-Metabotropic Glutamate Receptor 5 antibody (ab53090)  
This image is courtesy of an anonymous Abreview

ab53090 staining Metabotropic Glutamate Receptor 5 (red) in rat hippocampal neuron by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with formaldehyde, permeabilized with 0.2% Triton X-100 and blocked with 5% serum for 20 minutes at 22°C. Samples were incubated with primary antibody (1/200) for 24 hours at 22°C. An Alexa Fluor® 594-conjugated chicken anti-rabbit IgG polyclonal (1/200) was used as the secondary antibody. Cyan - pre-synaptic marker Bassoon.



Western blot - Anti-Metabotropic Glutamate Receptor 5 antibody (ab53090)

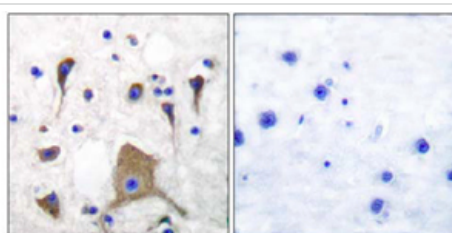
**All lanes :** Anti-Metabotropic Glutamate Receptor 5 antibody (ab53090) at 1/300 dilution

**Lane 1 :** Mouse brain extracts

**Lane 2 :** Mouse brain extracts with blocking peptide

**Predicted band size:** 132 kDa

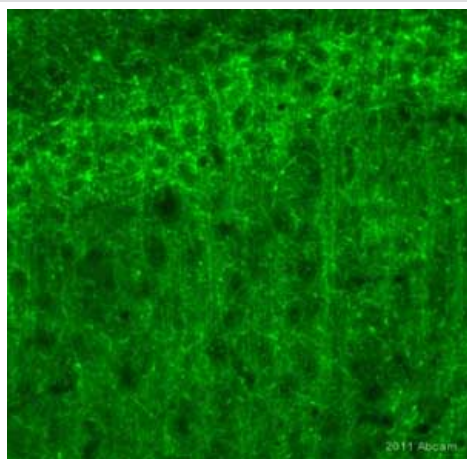
**Observed band size:** 100 kDa



Peptide - +

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Metabotropic Glutamate Receptor 5 antibody (ab53090)

Immunohistochemical analysis of paraffin embedded human brain tissue using ab53090 at 1/50 dilution, in the presence (right) and absence (left) of blocking peptide.



Immunohistochemistry - Free Floating - Anti-Metabotropic Glutamate Receptor 5 antibody (ab53090)

Image courtesy of Dr Sophie Pezet by Abreview.

ab53090 staining Metabotropic Glutamate Receptor 5 in rat brain tissue sections by Immunohistochemistry (Free Floating). Animals were perfused fixed with 4% paraformaldehyde with 15% of a solution of saturated picric acid, in phosphate buffer 0.1M. Following postfixation in the same fixative overnight, the brains were cryoprotected in sucrose 30% overnight. Brains were then cut using a cryostat and the immunostainings were performed using ab53090 at a 1/300 dilution. The secondary used was an Alexa Fluor 488 conjugated goat anti-rabbit used at a 1/1000 dilution.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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