

Product datasheet

Anti-Metabotropic Glutamate Receptor 7 antibody ab53705

★★★★★ 1 Abreviews 1 References 3 Images

Overview

Product name	Anti-Metabotropic Glutamate Receptor 7 antibody
Description	Rabbit polyclonal to Metabotropic Glutamate Receptor 7
Host species	Rabbit
Specificity	ab53705 detects endogenous levels of total Metabotropic Glutamate Receptor 7 protein
Tested applications	Suitable for: IP, WB, IHC-P, ELISA
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat
Immunogen	Synthetic peptide derived from human Metabotropic Glutamate Receptor 7.
Positive control	Human brain tissue and HuvEc cell extracts.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS (without Mg ²⁺ and Ca ²⁺), 150mM Sodium chloride, pH 7.4
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab53705** in the following tested applications.

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

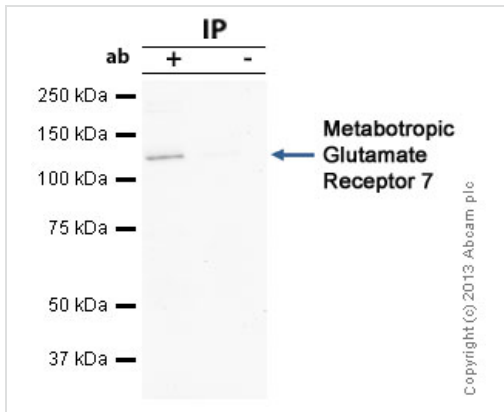
Application	Abreviews	Notes
IP		Use a concentration of 5 µg/ml.

Application	Abreviews	Notes
WB		1/500 - 1/1000. Detects a band of approximately 102 kDa (predicted molecular weight: 102 kDa).
IHC-P	★★★★★	Use at an assay dependent concentration.
ELISA		1/20000.

Target

Function	Receptor for glutamate. The activity of this receptor is mediated by a G-protein that inhibits adenylate cyclase activity.
Tissue specificity	Expressed in many areas of the brain, especially in the cerebral cortex, hippocampus, and cerebellum. Expression of GRM7 isoforms in non-neuronal tissues appears to be restricted to isoform 3 and isoform 4.
Sequence similarities	Belongs to the G-protein coupled receptor 3 family.
Cellular localization	Cell membrane.

Images



Immunoprecipitation - Anti-Metabotropic Glutamate Receptor 7 antibody (ab53705)

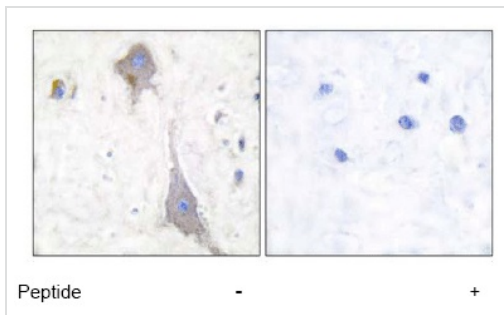
Metabotropic Glutamate Receptor 7 was immunoprecipitated using 0.5mg Rat Brain tissue extract, 5µg of Rabbit polyclonal to Metabotropic Glutamate Receptor 7 and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).

The antibody was incubated under agitation with Protein G beads for 10min, Rat Brain tissue extract lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.

Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70°C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab53705.

Secondary: Mouse monoclonal [SB62a] Secondary Antibody to Rabbit IgG light chain (HRP) (ab99697).

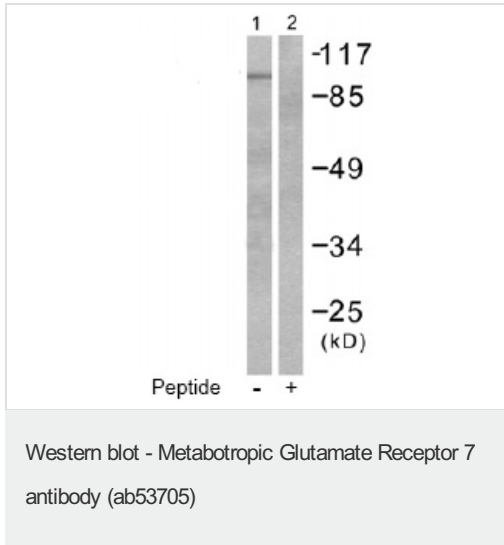
Band: 110kDa; Metabotropic Glutamate Receptor 7



Immunohistochemistry (Paraffin-embedded sections)
- Metabotropic Glutamate Receptor 7 antibody (ab53705)

ab53705 at 1/50 dilution staining Metabotropic Glutamate Receptor 7 in human brain by Immunohistochemistry, Paraffin embedded tissue, in the absence or presence of the immunising peptide.

ab53705 at 1/50 dilution staining Metabotropic Glutamate Receptor 7 in human brain by Immunohistochemistry, Paraffin embedded tissue, in the absence or presence of the immunising peptide.



All lanes : Anti-Metabotropic Glutamate Receptor 7 antibody (ab53705) at 1/500 dilution

Lane 1 : HuvEc cell extract

Lane 2 : HuvEc cell extract with immunising peptide

Predicted band size: 102 kDa

Observed band size: 102 kDa

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

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