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Product datasheet for AP31115PU-N

Grm5 (C-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	**Western blot:** 0.1-0.5 µg/ml. ECL on Rat microsmoal preparation. Reacts with a band of ~132 kDa. **Immunocytochemistry:** 0.5 µg/ml (See Protocols for more details). **Immunohistochemistry:** 0.1-0.2 µg/ml (See Protocols for more details).
Reactivity:	Canine, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide from C-terminus of Rat mGluR5
Specificity:	This antibody recognizes mGluR5 at C-term.
Formulation:	0.02M Phosphate, 0.2M Sodium Chloride, pH 7.6 State: Aff - Purified State: Liquid purified IgG fraction Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Purification:	Afiinity Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted (in aliquots) at -20°C Antibody may have become trapped in top of vial during shipping. Centrifugation of vial is recommended before opening. Avoid repeated freezing and thawing.
Stability:	Shelf life: 6 months from despatch.
Gene Name:	glutamate metabotropic receptor 5
Database Link:	Entrez Gene 108071 MouseEntrez Gene 24418 Rat P31424

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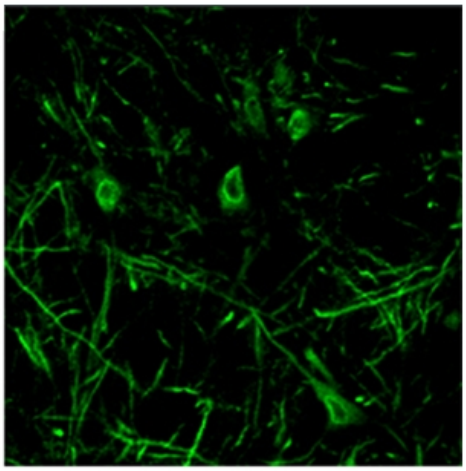
Background: Metabotropic glutamate receptors (mGluRs) are G-protein coupled receptors activated by glutamate. Based on sequence similarity, transduction mechanisms and agonist potencies, mGluRs are subdivided into three groups: mGluR1/mGluR5, mGluR2/mGluR3, and mGluR4/mGluR6/mGluR7/mGluR8. mGluRs are widely distributed throughout the nervous system and are expressed by both neurons and glial cells. mGluRs have been suggested to play a variety of functional roles, among which is involvement in synaptic plasticity underlying learning and memory as well as chronic pain.

Synonyms: Metabotropic glutamate receptor 5, GPRC1E, MGLUR5

Note: Protocol: **Immunohistochemistry:** Rat brain and mouse brain sections fixed with 4% paraformaldehyde containing 15% saturated picric acid in 0.1M PB, pH 7.4.
Slide-mounted tissue sections were processed for indirect **Immunofluorescence.**
Slides were incubated with blocking buffer for 1 hour at room temperature.
Primary antiserum was diluted with blocking buffer to the appropriate working concentration.
Blocking buffer was removed and slides were incubated for 18-24 hours at 4ºC with primary antiserum.
Slides were rinsed 3 times and then incubated with secondary antibodies for 1 hour at room temperature.
Slides were again rinsed 3 times and coverslipped.
Staining was examined using Fluorescence microscopy.

Product images:



mGluR5 antibody staining of Rat globus pallidus. Images courtesy of Dr. Joyce Besheer, UNC.