Polyclonal Antibody to mGluR1
Purified Antibody (0.1 mg)

Clone: Polyclonal
Isotype: Rabbit None
Specificity: The polyclonal antibody reacts with the metabotropic glutamate receptor mGluR1. Both mGluR1a (approx. 130 kDa) and mGluR1b (approx. 100 kDa) isoforms are recognized.
Regulatory Status: RUO
Immunogen: KLH-coupled synthetic peptide derived from the last 21 amino acids of mouse/rat mGluR1a. Only 1 amino acid is different from the human last 21 amino acids of mGluR1a.
Species Reactivity: Mouse, Other not tested
Application: Western Blotting
Recommended dilution: 5 µg/ml
Purity: > 95% (by SDS-PAGE)
Purification: Purified from rabbit serum by protein-G affinity chromatography.
Concentration: 1 mg/ml
Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability: Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration: See vial label
Lot Number: See vial label
Background: The metabotropic glutamate receptor mGluR1, together with mGluR5 (both constituting group I of mGluRs), is coupled to the inositol phosphate/Ca^{2+} signal transduction pathway, whereas the other five metabotropic glutamate receptors (mGluR2, mGluR3, mGluR4, mGluR6, mGluR7) are linked to the inhibition of the cAMP cascade. The highest level of mGluR1 mRNA expression is found in the cerebellar Purkinje cells. Three splicing variants have been described for mGluR1: mGluR1a (alpha), mGluR1b (beta), and mGluR1c. The mGluR1a and mGluR1b functionally differ e.g. in their internalisation responses or in ability to activate the Gs protein pathway, as the mGluR1b lacks a part of C terminus.
References:

*Song JH, Park ES, Han SM, Han SR, Ahn DK, Youn DH: Signal transduction mechanisms underlying group I mGluR-mediated increase in frequency and amplitude of spontaneous EPSCs in the spinal trigeminal subnucleus oralis of the rat. Mol Pain. 2009 Sep 2;5:50.


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