### Product Details

**Clone:** Polyclonal  
**Isotype:** Rabbit None  
**Specificity:** The rabbit polyclonal antibody recognizes C-terminus of metabotropic glutamate receptor 1 isoform mGluR1b. The mGluR1a isoform is not recognized.  
**Regulatory Status:** RUO  
**Immunogen:** KLH-coupled synthetic peptide derived from the last 19 amino acids of rat/human mGluR1b. Only 1 amino acid is different from the mouse last 19 amino acids of mGluR1b (V-->A).  
**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 mGluR1b protein is an isoform of the metabotropic glutamate receptor 1 (mGluR1). The 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.


Unless indicated otherwise, all products are For Research Use Only and not for diagnostic or therapeutic use. Not for resale or transfer either as a stand-alone product or as a component of another product without written consent of EXBIO. EXBIO will not be held responsible for patent infringement or other violations that may occur with the use of our products. All orders are accepted subject to EXBIO’s term and conditions which are available at www.exbio.cz.