

Datasheet for ABIN7043246
**anti-Metabotropic Glutamate Receptor 1 antibody
(Extracellular, N-Term) (Atto 488)**

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2 Images

Overview

Quantity:	50 µL
Target:	Metabotropic Glutamate Receptor 1 (GRM1)
Binding Specificity:	AA 501-516, Extracellular, N-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Metabotropic Glutamate Receptor 1 antibody is conjugated to Atto 488
Application:	Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)HEGVLNIDDYKIQMNK, corresponding to amino acids 501-516 of rat mGluR1
Isotype:	IgG
Characteristics:	Anti-mGluR1 (extracellular) Antibody (ABIN7043245, ABIN7044330 and ABIN7044331)) is a highly specific antibody directed against the extracellular N-terminus domain of rat mGluR1. The antibody can be used in western blot and immunocytochemistry applications, and recognizes mGluR1 in rat, mouse and human samples. \nAnti-mGluR1 (extracellular)-ATTO Fluor-488 Antibody (#ABIN7043246) is directly labeled with an ATTO-488 fluorescent dye. ATTO dyes are characterized by strong absorption (high extinction coefficient), high fluorescence quantum yield, and high photo-stability. The ATTO-488 label is analogous to the well known dye fluorescein isothiocyanate (FITC) and can be used with filters typically used to

Product Details

detect FITC. Anti-mGluR1 (extracellular)-ATTO Fluor-488 Antibody has been tested in immunohistochemistry applications and is especially suited for experiments requiring simultaneous labeling of different markers.

Purification: Affinity purified on immobilized antigen.

Target Details

Target: Metabotropic Glutamate Receptor 1 (GRM1)

Alternative Name: mGluR1 ([GRM1 Products](#))

Background: Alternative names: mGluR1, Metabotropic glutamate receptor 1, GRM1, mGlu1, GPRC1a, PPP1R85, SCAR13

Gene ID: 24414

NCBI Accession: [NM_000838](#)

UniProt: [P23385](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: 50 µL double distilled water (DDW).

Concentration: 1 mg/mL

Buffer: Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.

Preservative: Sodium azide

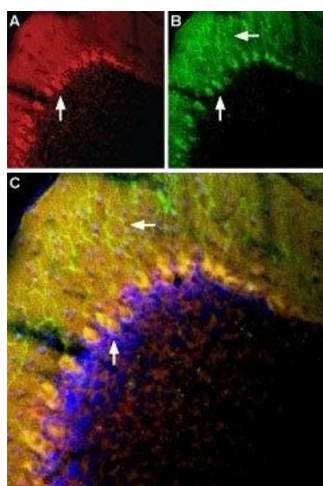
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: RT, 4 °C, -20 °C

Storage Comment: Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C.

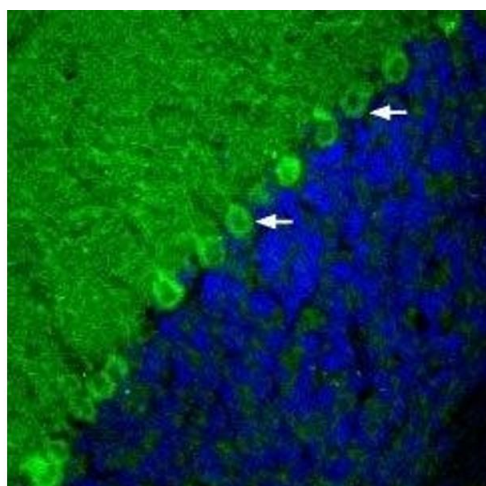
Storage after reconstitution: The reconstituted solution can be stored at 4°C, protected from the light, for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).

Images



Immunohistochemistry

Image 1. Multiplex staining of mGluR1 and TRPC3 in mouse cerebellum - Immunohistochemical staining of perfusion-fixed frozen mouse cerebellum sections using Anti-TRPC3-ATTO Fluor-594 Antibody (ABIN7043819), (1:60) and Anti-mGluR1 (extracellular)-ATTO Fluor-488 Antibody (ABIN7043246), (1:60). A. TRPC3 staining (red). B. mGluR1 staining (green). C. Merge of the two images suggests extensive co-localization in Purkinje cells (vertical arrows). Note expression of mGluR1 in Purkinje dendrites (horizontal arrow) but not of TRPC3. Cell nuclei are stained with DAPI (blue).



Immunohistochemistry

Image 2. Expression of mGluR1 in rat cerebellum - Immunohistochemical staining of rat cerebellum frozen sections with Anti-mGluR1 (extracellular)-ATTO Fluor-488 Antibody (ABIN7043246) (1:20). Staining (in green) appears in cerebellar Purkinje cells (arrows) and in the molecular layer.