

Human mGluR1 Alexa Fluor® 594-conjugated Antibody

Monoclonal Mouse IgG₁ Clone # 511601 Catalog Number: FAB48361T

100 µg

| DESCRIPTION | | | |
|--------------------|---|--|--|
| Species Reactivity | Human | | |
| Specificity | Detects human mGluR1a in direct ELISAs. | | |
| Source | Monoclonal Mouse IgG ₁ Clone # 511601 | | |
| Purification | Protein A or G purified from hybridoma culture supernatant | | |
| Immunogen | Chinese hamster ovary cell line CHO-derived recombinant human mGluR1a Met1-Ser522 Accession # Q13255 | | |
| Conjugate | Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm | | |
| Formulation | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. | | |
| | *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. | | |

| APPLICATIONS | | | |
|---|---------------------------------|---|--|
| Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website. | | | |
| | Recommended Concentration | Sample | |
| Flow Cytometry | - | HEK293 Human Cell Line Transfected with Human MGLUR1 and eGFP | |
| Flow Cytometry | 0.25-1 μg/10 ⁶ cells | HEK293 Human Cell Line Transfected with Human MGLUR1 and eGFP | |

| PREPARATION AND S | TORAGE | |
|---------------------|---|--|
| Shipping | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. | |
| Stability & Storage | Protect from light. Do not freeze. | |
| | | |

BACKGROUND

Metabotropic glutamate receptor 1 (mGluR1 α) is a 130 kDa, 7-transmembrane glycoprotein that belongs to group I of the C-family of G-protein coupled receptors. On neurons, mGluR1 is postsynaptic, associates with G_q -like proteins, mobilizes intracellular Ca^{++} , and influences ion channel activity. Mature mGluR1 is 1176 amino acids (aa) in length and contains a 574 aa N-terminal extracellular domain (ECD) (aa 19-592). The ECD binds glutamate and forms either a covalent homodimer, or heterodimer with CaSR. There is one alternative splice form for human mGluR1 that shows a 20 aa substitution for the C-terminal 308 amino acids. Over aa 33-522, human mGluR1 shares more that 98% aa identity with mouse, rat and canine mGluR1.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.

