

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human HOMER1 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 666241
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Synthetic peptide KFGQWADSRA corresponding to aa 73-82 of human HOMER1 Accession # Q86YM7
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% 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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

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. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

HOMER1 is an approximately 48 kDa cytoplasmic protein that regulates the cell surface localization of neuronal mGluR1 and mGluR5 metabotropic glutamate receptors. It also functions in striated muscle mechanotransduction and excitation-contraction coupling by regulating the localization of transient receptor potential (TRP) channels and the coupling of ryanodine receptors to Cav1.2 calcium channels. Alternately spliced isoforms of human HOMER1 lack either the C-terminal half of the molecule (aa 178-354) or 130 aa following the WH1 domain (aa 99-228). Particular isoforms show distinct effects on hippocampal neuronal plasticity and the maintenance of extracellular glutamate levels in the prefrontal cortex. Within aa 73-82, human HOMER1 shares 100% aa sequence identity with mouse and rat HOMER1.

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.