

Human HOMER1 antibody

Catalog Number: ATGA0146

PRODUCT INFORMATION

Catalog number

ATGA0146

Clone No.

AT1F3

Product type

Monoclonal Antibody

UnitProt No.

Q86YM7

NCBI Accession No.

NP_004263

Alternative Names

HOMER, Homer protein homolog 1, HOMER1, HOMER1A, HOMER1B, HOMER1C, Neuronal immediate early gene, SYN47, Ves 1

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human Homer1 (1-354aa) purified from E. coli

Isotype

IgG2b kappa

Purification Note

By protein-G affinity chromatography

Application

ELISA, WB, ICC/IF

Usage

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Homer1 (Homer protein homolog 1) belongs to Homer family of proteins that regulate signal transduction through, and the trafficking of, glutamate receptors, as well as maintain and regulate extracellular glutamate levels in corticolimbic brain regions. The Homer1 is enriched at excitatory synapses and binds group 1 metabotropic glutamate receptors (mGluRs).

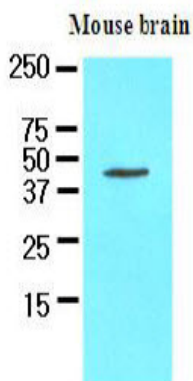
General References

Szumliński KK, et al., (2008) *Biochem Pharmacol.* 75(1):112-33.

Roche KW, et al., (1999) *J Biol Chem.*274(36):25953-7.

DATA

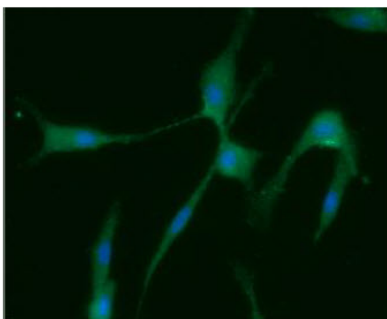
Western blot analysis (WB)



The tissue lysate(50ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human HOMER1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: Mouse Brain Tissue lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of HOMER1 in U87MG cells. The cell was stained with ATGA0146 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).