

For Research Use Only

# HOMER1 Polyclonal antibody

Catalog Number: 12433-1-AP

Featured Product

19 Publications



## Basic Information

### Catalog Number:

12433-1-AP

### Size:

800 µg/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG3109

### GenBank Accession Number:

BC015502

### GeneID (NCBI):

9456

### UNIPROT ID:

Q86YM7

### Full Name:

homer homolog 1 (Drosophila)

### Calculated MW:

40 kDa

### Observed MW:

46-48 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:5000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF-P 1:50-1:500

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IF-P, FC (Intra), IP, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

mouse, rat, zebra finches

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB**: rat brain tissue, human brain tissue, human/mouse brain

**IP**: fetal human brain tissue,

**IHC**: human gliomas tissue, mouse brain tissue, rat brain tissue, human pancreas tissue

**IF-P**: rat brain tissue,

**IF/ICC**: PC-12 cells, MCF-7 cells

## Background Information

Human HOMER1, also named as SYN47, belongs to the Homer family. Human HOMER1 has some isoforms: HOMER1a, HOMER1b, HOMER1c, HOMER1e and HOMER1h. Mouse Homer1 also named as Vesl-1 and it has some isoforms: Vesl-1l, Vesl-1m, Vesl-1s, Homer1b, and Homer1d. HOMER1 is a postsynaptic density scaffolding protein. It is a neuronal immediate-early gene (IEG) that is enriched at excitatory synapses and binds mGluRs. In WB, the MW of HOMER1 is about 46-50kd, 40-43kd and 20-26kd.

## Notable Publications

Author	Pubmed ID	Journal	Application
Qianli Zhang	36313806	Cell Rep Methods	IF
Lisa Y So	33031871	Behav Brain Res	WB
Chuyu Chen	33006315	Elife	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

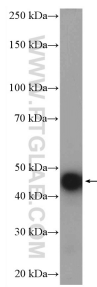
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

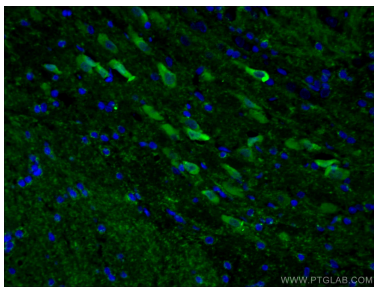
W: [ptgcn.com](http://ptgcn.com)

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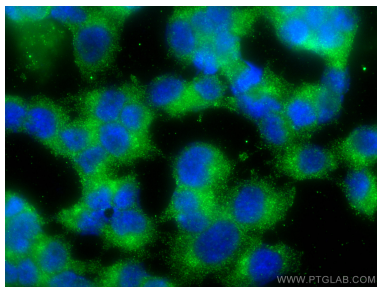
Selected Validation Data



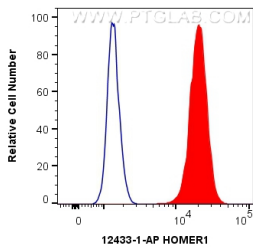
rat brain tissue were subjected to SDS PAGE followed by western blot with 12433-1-AP (HOMER1 antibody) at dilution of 1:5000 incubated at room temperature for 1 hour.



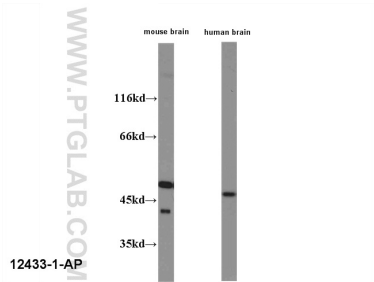
Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using 12433-1-AP (HOMER1 antibody) at dilution of 1:50 and CoraLite488-Conjugated Goat Anti-Rabbit IgG(H+L).



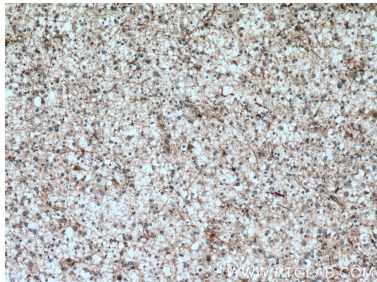
Immunofluorescent analysis of (-20°C Ethanol) fixed PC-12 cells using HOMER1 antibody (12433-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



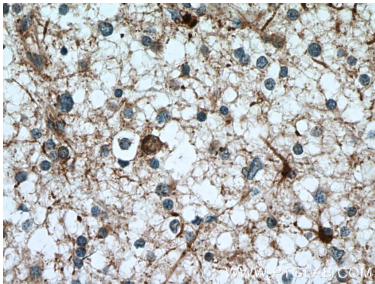
1X10<sup>6</sup> SH-SY5Y cells were intracellularly stained with 0.4 ug Anti-Human HOMER1 (12433-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



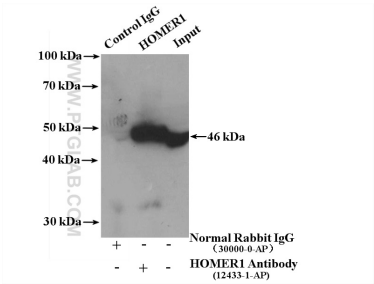
WB result of anti-HOMER1 (12433-1-ap) with mouse brain lysate and human brain lysate.



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 12433-1-AP (HOMER1 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 12433-1-AP (HOMER1 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-HOMER1 (IP:12433-1-AP, 4ug; Detection:12433-1-AP 1:1000) with fetal human brain tissue lysate 4000 ug.