

For Research Use Only

# HOMER1 Polyclonal antibody

Catalog Number: 12433-1-AP

Featured Product

19 Publications



## Basic Information

### Catalog Number:

12433-1-AP

### Size:

150ul, Concentration: 800 ug/ml by Nanodrop and 460 ug/ml by Bradford method using BSA as the standard;

### 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 ug 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

\*\*\* 20ul sizes contain 0.1% BSA

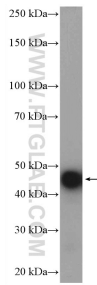
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

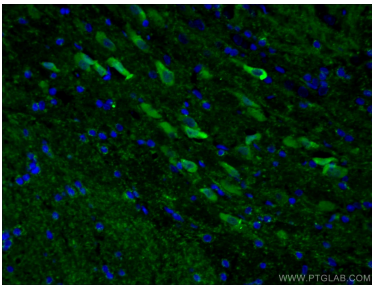
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

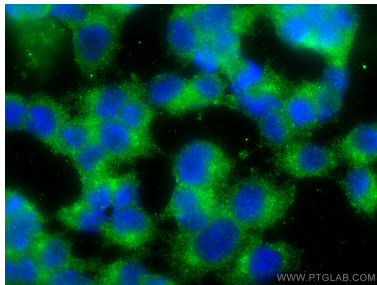
Selected Validation Data



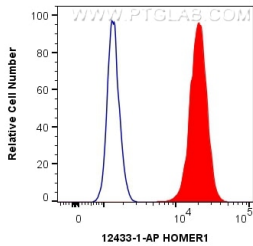
rat brain tissue were subjected to SDS PAGE followed by western blot with 12433-1-AP (HOMER1 antibody) at dilution of 1:5000 incubated at room temperature for 1 hour.



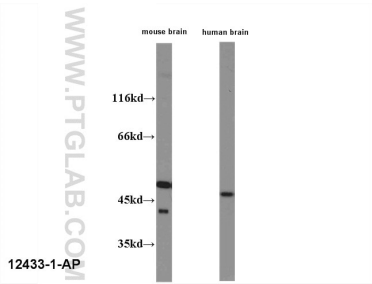
Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using 12433-1-AP (HOMER1 antibody) at dilution of 1:50 and CoraLite488-Conjugated Goat Anti-Rabbit IgG(H+L).



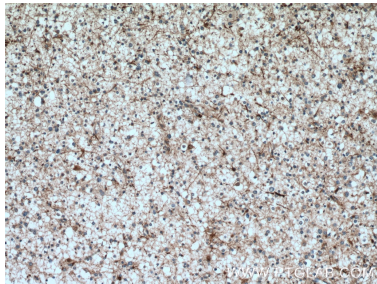
Immunofluorescent analysis of (-20°C Ethanol) fixed PC-12 cells using HOMER1 antibody (12433-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



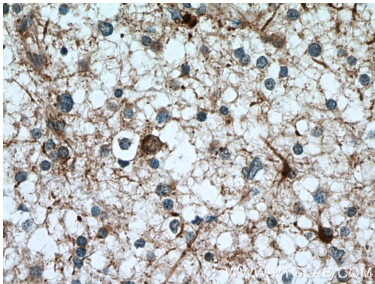
1X10<sup>6</sup> SH-SY5Y cells were intracellularly stained with 0.4 ug Anti-Human HOMER1 (12433-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



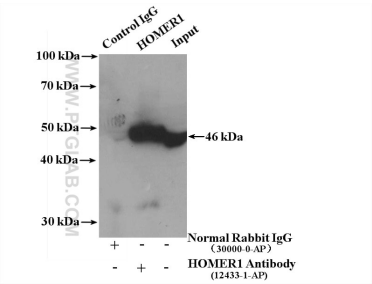
WB result of anti-HOMER1 (12433-1-ap) with mouse brain lysate and human brain lysate.



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.