

For Research Use Only

# HOMER2 Polyclonal antibody

Catalog Number: 11143-1-AP **1 Publications**



## Basic Information

<b>Catalog Number:</b> 11143-1-AP	<b>GenBank Accession Number:</b> BC012109	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 1300 µg/ml	<b>GeneID (NCBI):</b> 9455	<b>Recommended Dilutions:</b> WB 1:2000-1:12000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9NSB8	IHC 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> homer homolog 2 (Drosophila)	IF 1:200-1:800
<b>Immunogen Catalog Number:</b> AG1606	<b>Calculated MW:</b> 41 kDa	
	<b>Observed MW:</b> 41 kDa	

## Applications

### Tested Applications:

IF, IHC, WB, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse, rat

### Cited Species:

mouse

**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 : HEK-293 cells, HEK-293T cells, MCF-7 cells, rat kidney tissue, LnCaP cells

IHC : mouse cerebellum tissue,

IF : U2OS cells,

## Background Information

HOMER2 (Homer Scaffold Protein 2), a postsynaptic density scaffolding protein, is essential for normal hearing in humans and mice (PMID: 25816005). HOMER2 negatively regulates T cell activation by inhibiting the calcineurin-NFAT pathway (Uniprot). HOMER2 belongs to the homer family of dendritic proteins which are immediate early gene products who bind to group 1 metabotropic glutamate receptors (mGluRs), proteins associated to triggering intracellular calcium release. Additionally, HOMER2 connects mGluRs to the inositol triphosphate receptors (IP3R).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yue Qin	35388181	Mol Psychiatry	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:

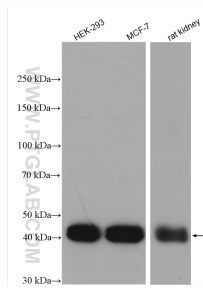
T: 4006900926

E: Proteintech-CN@ptglab.com

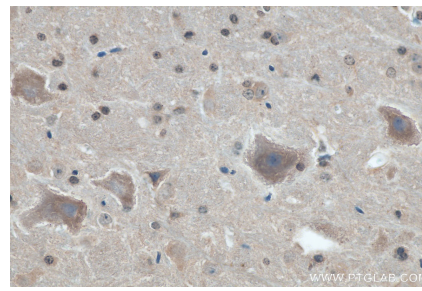
W: ptgcn.com

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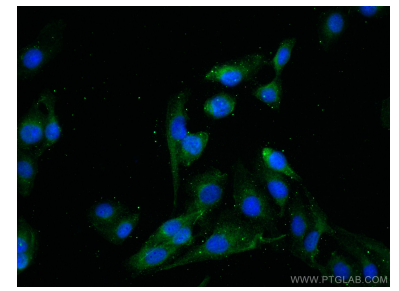
## Selected Validation Data



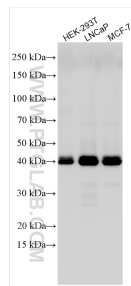
Various lysates were subjected to SDS PAGE followed by western blot with 11143-1-AP (HOMER2 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 11143-1-AP (HOMER2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed U2OS cells using HOMER2 antibody (11143-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Various lysates were subjected to SDS PAGE followed by western blot with 11143-1-AP (HOMER2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.