

For Research Use Only

HOMER2 Polyclonal antibody

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



Basic Information

Catalog Number: 11143-1-AP	GenBank Accession Number: BC012109	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 1300 ug/ml by Nanodrop;	GeneID (NCBI): 9455	Recommended Dilutions: WB 1:2000-1:12000 IHC 1:50-1:500 IF/ICC 1:200-1:800
Source: Rabbit	UNIPROT ID: Q9NSB8	
Isotype: IgG	Full Name: homer homolog 2 (Drosophila)	
Immunogen Catalog Number: AG1606	Calculated MW: 41 kDa	
	Observed MW: 41 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, 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/ICC : 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

*** 20ul sizes contain 0.1% BSA

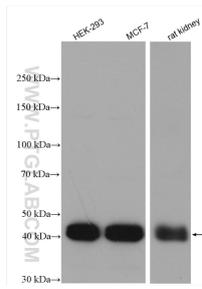
For technical support and original validation data for this product please contact:

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

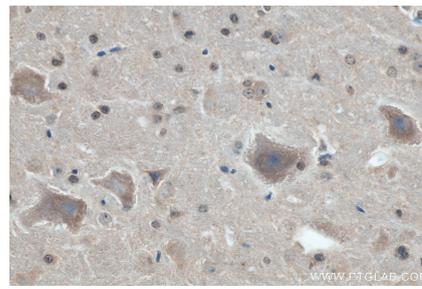
E: proteintech@ptglab.com
W: ptglab.com

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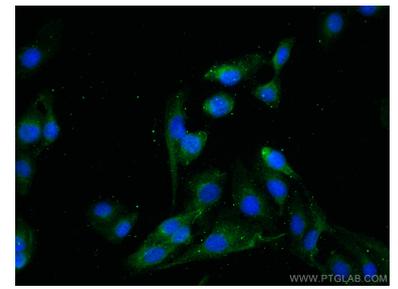
Selected Validation Data



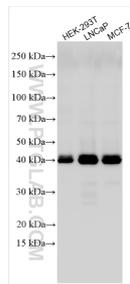
Various lysates were subjected to SDS PAGE followed by western blot with 11143-1-AP (HOMER2 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



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 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.