

For Research Use Only

Sortilin Polyclonal antibody

Catalog Number: 12369-1-AP

Featured Product

16 Publications



Basic Information

Catalog Number:

12369-1-AP

Size:

150ul, Concentration: 550 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2997

GenBank Accession Number:

BC023542

GeneID (NCBI):

6272

ENSEMBL Gene ID:

ENSG00000134243

UNIPROT ID:

Q99523

Full Name:

sortilin 1

Calculated MW:

831 aa, 92 kDa

Observed MW:

100-110 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:16000

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

IHC 1:500-1:2000

IF-P 1:200-1:800

IF/ICC 1:400-1:1600

Applications

Tested Applications:

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

Cited Applications:

WB, IHC, IF, IP, CoIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

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: mouse brain tissue, human brain tissue, rat brain tissue

IP: rat brain tissue,

IHC: mouse brain tissue, human brain tissue, rat brain tissue

IF-P: mouse brain tissue,

IF/ICC: HeLa cells,

Background Information

Sortilin 1 (SORT1), is a trans-Golgi network (TGN) transmembrane protein and is a member of the Vps10p domain receptor family. SORT1 binds a number of unrelated ligands that participate in a wide range of cellular processes. It functions as a sorting receptor in the Golgi compartment and as a clearance receptor on the cell surface.

Notable Publications

Author	Pubmed ID	Journal	Application
Hiroyuki Obata	36185767	Exp Ther Med	IF
Keiji Uchiyama	28665987	PLoS Pathog	WB,IF
Noah R Johnson	29203673	Proc Natl Acad Sci U S A	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

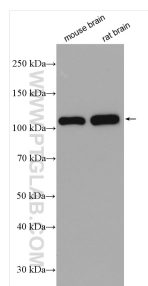
For technical support and original validation data for this product please contact:

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

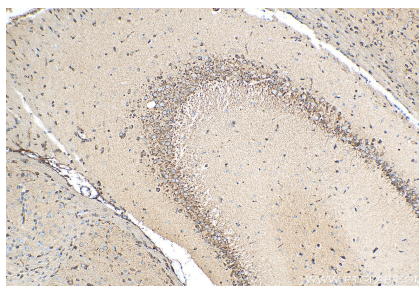
E: proteintech@ptglab.com
W: ptglab.com

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

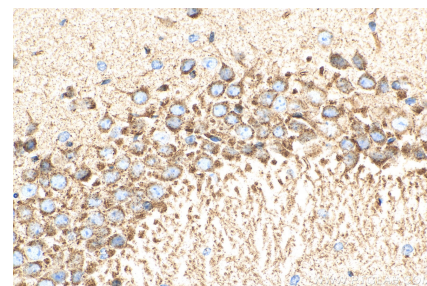
Selected Validation Data



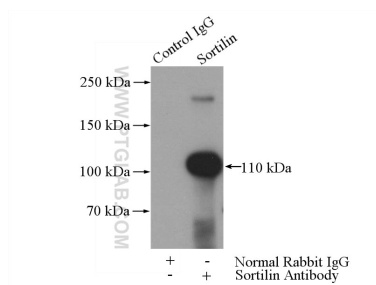
Various lysates were subjected to SDS PAGE followed by western blot with 12369-1-AP (Sortilin antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



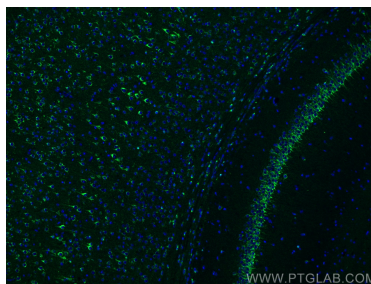
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 12369-1-AP (Sortilin antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



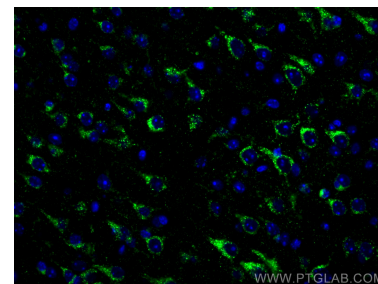
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 12369-1-AP (Sortilin antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



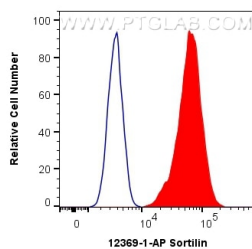
IP result of anti-Sortilin (IP:12369-1-AP, 4ug; Detection:12369-1-AP 1:500) with rat brain tissue lysate 4000ug.



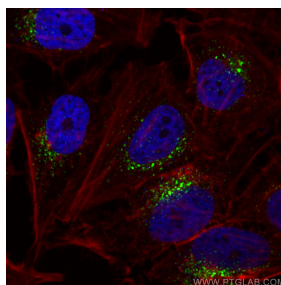
Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using Sortilin antibody (12369-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



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1X10⁶ Neuro-2a cells were intracellularly stained with 0.4 ug Anti-Human Sortilin (12369-1-AP) and CoraLite®488-Conjugated AffiniPure 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).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Sortilin antibody (12369-1-AP) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).