For Research Use Only

mDia1 Polyclonal antibody

Catalog Number: 20624-1-AP

Featured Product

20 Publications



Basic Information

Catalog Number: GenBank Accession Number:

20624-1-AP BC007411
Size: GeneID (NCBI):

150ul , Concentration: 500 ug/ml by 1729 Nanodrop; UNIPROT ID:

Source: 060610
Rabbit Full Name:

Isotype: diaphanous homolog 1 (Drosophila)

IgG Calculated MW:
Immunogen Catalog Number: 1272 aa, 141 kDa
AG14523 Observed MW:

140-150 kDa, 70 kDa

Applications

Tested Applications:

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

Cited Applications: WB, IHC, IF, ChIP Species Specificity: human, mouse, rat, monkey

Cited Species: human, 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: HeLa cells, human heart tissue, human skeletal muscle tissue, COS-7 cells, NIH/3T3 cells, MDA-MB-231 cells, HUVEC cells

Purification Method:

WB 1:1000-1:8000

protein lysate

IHC 1:50-1:500

IF/ICC 1:50-1:500

Antigen affinity purification

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

Recommended Dilutions:

IP : HeLa cells,

IHC: mouse kidney tissue,

IF/ICC: HeLa cells, HepG2 cells

Background Information

mDia1, also known as DIAPH1 or Diap1, is a mammalian diaphanous-related formin which is implicated in multiple physical and pathological events including cytoskeletal dynamics, autosomal hearing loss, and myelodysplasia. Depending upon the cell type and position in the cell cycle, mDia1 has been shown to localize to the cell cortex, trafficking endosomes, cleavage furrow, mid-bodies, and centrosomes, the cytoplasmic microtubule-organizing center crucial for cell division. Mutation of mDia1 has been linked to microcephaly. This antibody recognizes the endogenous mDia1 mainly around 140-150 kDa, while sometimes an additional 70 kDa can also be observed which is proposed to be a fragment of 140-150 kDa molecules (26011179).

Notable Publications

Author	Pubmed ID	Journal	Application
Jessica D Arden	26354425	Mol Biol Cell	WB, IF
Yan Guo	36198275	Cell Rep	WB
Fernando R Valencia	34822787	Dev Cell	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

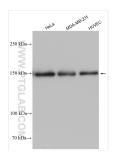
For technical support and original validation data for this product please contact:

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

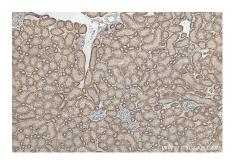
E: proteintech@ptglab.com
W: ptglab.com

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

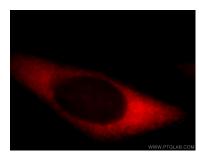
Selected Validation Data



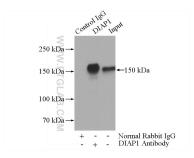
Various lysates were subjected to SDS PAGE followed by western blot with 20624-1-AP (mDia1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



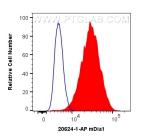
Immunohistochemical analysis of paraffinembedded mouse kidney tissue slide using 20624-1-AP (mDia1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



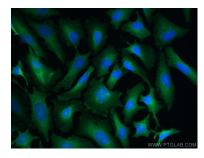
Immunofluorescent analysis of HepG2 cells, using DIAPH1 antibody 20624-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



IP result of anti-mDia1 (IP:20624-1-AP, 4ug; Detection:20624-1-AP 1:500) with HeLa cells lysate 1200ug.



1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human mDia1 (20624-1-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).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using mDia1 antibody (20624-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L).