For Research Use Only

## DIAPH3 Polyclonal antibody

Catalog Number:14342-1-AP

Featured Product 25 Publications



Basic Information	Catalog Number: 14342-1-AP	GenBank Accession Number: BC048963	Purification Method: Antigen affinity purification	
	Size:	GenelD (NCBI):	Recommended Dilutions:	
	150ul , Concentration: 700 ug/ml by Nanodrop;	81624	WB: 1:500-1:2000	
		UNIPROT ID:	IP: 0.5-4.0 ug for 1.0-3.0 mg of total	
	Source:	Q9NSV4	protein lysate	
	Rabbit	Full Name:	IHC: 1:50-1:500 IF/ICC: 1:200-1:800	
	Isotype: diaphanous homolog 3 (Drosophila)		hila)	
	IgG Immunogen Catalog Number: AG5656	Calculated MW:		
		137 kDa		
		Observed MW: 125-137 kDa		
Applications	Tested Applications:	Positive	e Controls:	
	WB, IHC, IF/ICC, IP, ELISA	WB : He	WB : HeLa cells, DU 145 cells, HEK-293 cells	
	Cited Applications: WB, IHC, IF, IP	IP : HeLa cells,		
	Species Specificity: human, mouse, rat		IHC : mouse testis tissue, human cervical cancer tissurat testis tissue, human prostate cancer tissue IF/ICC : HeLa cells,	
	Cited Species:	IF/ICC:		
	human, mouse			
	Note-IHC: suggested antigen TE buffer pH 9.0; (*) Alternati retrieval may be performed w buffer pH 6.0	vely, antigen		
	DIAPH3 is also refered as diaphanous-related formin-3 which binds to GTP-bound form of Rho and to profilin, acts in a Rho-dependent manner to recruit profilin to the membrane. It is required for cytokinesis, stress fiber formation, and transcriptional activation of the serum response factor. Seven isoforms of DIAPH3 exist due to the alternative splicing. Recently it has been reported that dimerization and actin assembly activity of DIAPH3 isoforms 1 and 7 are essential for induction of specific cell protrusions. It may propose that isoform-selective actin assembly by DIAPH3 exerts specific and differentially regulated functions during cell adhesion and motility.			
Background Information	a Rho-dependent manner to recruit p and transcriptional activation of the splicing. Recently it has been reporte essential for induction of specific cel	serum response factor. Seven isc ed that dimerization and actin as: l protrusions. It may propose tha	uired for cytokinesis, stress fiber formation, forms of DIAPH3 exist due to the alternative sembly activity of DIAPH3 isoforms 1 and 7 are t isoform-selective actin assembly by DIAPH3	
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Notable Publications	a Rho-dependent manner to recruit p and transcriptional activation of the splicing. Recently it has been reports essential for induction of specific cel exerts specific and differentially reg Author Pr Esmeralda Castelblanco 2 Renli Huang 3 Kathryn N Becker 3 Storage: Storage Buffer: PBS with 0.02% sodium azide and 50	serum response factor. Seven isc ed that dimerization and actin as l protrusions. It may propose tha ulated functions during cell adhe ubmed ID Journal 7796194 Thyroid 5538918 Cancer Med 5563863 Cells er shipment.	uired for cytokinesis, stress fiber formation, forms of DIAPH3 exist due to the alternative sembly activity of DIAPH3 isoforms 1 and 7 ar t isoform-selective actin assembly by DIAPH3 sion and motility. Application WB,IHC	
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For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com

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## Selected Validation Data



WB result of DIAPH3 antibody (14342-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-DIAPH3 transfected HeLa cells.



HeLa cells were subjected to SDS PAGE followed by western blot with 14342-1-AP (DIAPH3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



WB result of DIAPH3 antibody (14342-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-DIAPH3 transfected HEK-293 cells.



IP result of anti-DIAPH3 (IP:14342-1-AP, 4ug; Detection:14342-1-AP 1:500) with HeLa cells lysate 2000ug.



Immunohistochemical analysis of paraffinembedded human cervical cancer tissue slide using 14342-1-AP (DIAPH3 Antibody) at dilution of 1:50.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using DIAPH3 antibody (14342-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffinembedded mouse testis tissue slide using 14342-1-AP (DIAPH3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded rat testis tissue slide using 14342-1-AP (DIAPH3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).