

DIAPH1 Polyclonal Antibody

Catalog NumberPA5-21409

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Published species	Human, Not Applicable
Class	Polyclonal	Tested Applications	
Type	Antibody	Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000
Immunogen	Recombinant fragment corresponding to a region within amino acids 1 and 237 of DIAPH1 (Uniprot ID#O60610)	Western Blot (WB)	1:500-1:3,000
		Immunocytochemistry (ICC/IF)	1:100-1:1,000
Conjugate	Unconjugated	Published Applications	
Form	Liquid	Western Blot (WB)	See 1 publications below
Concentration	0.69 mg/mL	<div>* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.</div>	
Purification	Antigen affinity chromatography		
Storage buffer	0.1M tris glycine, pH 7, with 10% glycerol		
Contains	0.01% thimerosal		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

Recommended positive controls: A431, H1299, HeLa, HepG2, Molt-4, Raji. Predicted reactivity: Mouse (95%), Rat (94%), Pig (98%). Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Background/Target Information

This gene is a homolog of the Drosophila diaphanous gene, and has been linked to autosomal dominant, fully penetrant, nonsyndromic sensorineural progressive low-frequency hearing loss. Actin polymerization involves proteins known to interact with diaphanous protein in Drosophila and mouse. It has therefore been speculated that this gene may have a role in the regulation of actin polymerization in hair cells of the inner ear. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.

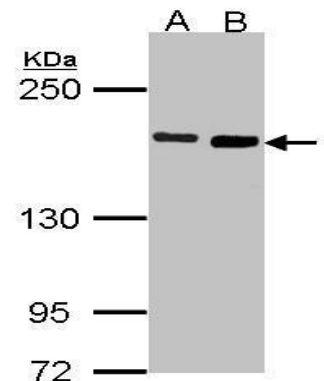
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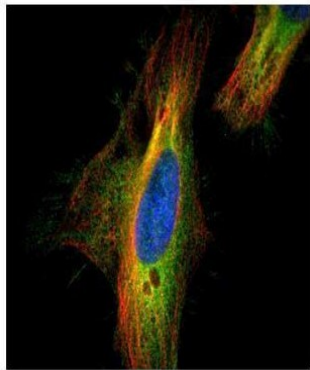
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Product Images For DIAPH1 Polyclonal Antibody



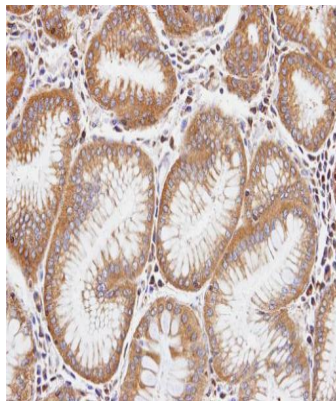
DIAPH1 Antibody (PA5-21409) in WB

Western Blot using DIAPH1 Polyclonal Antibody (Product # PA5-21409). Sample (30  $\mu$ g of whole cell lysate). Lane A: H1299. Lane B: Raji. 7.5% SDS PAGE. DIAPH1 Polyclonal Antibody (Product # PA5-21409) diluted at 1:1,000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



DIAPH1 Antibody (PA5-21409) in ICC/IF

Confocal immunofluorescence analysis (Olympus FV10i) of paraformaldehyde-fixed HeLa, using DIAPH1 antibody (Product # PA5-21409) (Green) at 1:500 dilution. Alpha-tubulin filaments were labeled with (Product # MA1-25054) (Red) at 1:2,000.



DIAPH1 Antibody (PA5-21409) in IHC (P)

Immunohistochemical analysis of paraffin-embedded human gastric tissue, using DIAPH1 (Product # PA5-21409) antibody at 1:100 dilution. Antigen Retrieval: EDTA based buffer, pH 8.0, 15 min.

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PubMed References For DIAPH1 Polyclonal Antibody

1 Western Blot References

Species / Dilution	Summary
Human / 1:1000	<p>PA5-21409 was used in Western Blotting to show how Wnt signaling mediates sphingolipid-dependent oriented division and how sphingolipids determine Anthrax receptor palmitoylation.</p> <p>Nature communications ( 2020; 11: )</p> <p><b>"Wnt-controlled sphingolipids modulate Anthrax Toxin Receptor palmitoylation to regulate oriented mitosis in zebrafish."</b></p> <p>Author(s):Castanon I,Hannich JT,Abrami L,Huber F,Dubois M,Müller M,van der Goot FG,Gonzalez-Gaitan M</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1038/s41467-020-17196-3">http://dx.doi.org/10.1038/s41467-020-17196-3</a></p>

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