10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

DIAPH2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9407c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	O60879
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB23866
Calculated MW	125569
Antigen Region	870-899

Additional Information

Gene ID	1730
Other Names	Protein diaphanous homolog 2, Diaphanous-related formin-2, DRF2, DIAPH2, DIA
Target/Specificity	This DIAPH2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 870-899 amino acids from the Central region of human DIAPH2.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	DIAPH2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	DIAPH2
Synonyms	DIA
Function	Could be involved in oogenesis. Involved in the regulation of endosome

	dynamics. Implicated in a novel signal transduction pathway, in which isoform 3 and CSK are sequentially activated by RHOD to regulate the motility of early endosomes through interactions with the actin cytoskeleton.
Cellular Location	[Isoform 3]: Cytoplasm, cytosol. Early endosome. Note=Isoform 3 is cytosolic but when coexpressed with RHOD, the 2 proteins colocalize to early endosomes
Tissue Location	Expressed in testis, ovary, small intestine, prostate, lung, liver, kidney and leukocytes

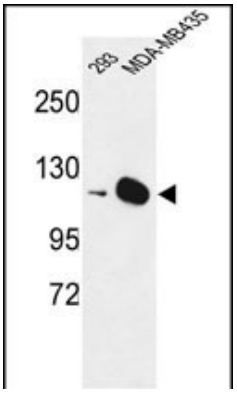
Background

DIAPH2 belongs to the diaphanous subfamily of the formin homology family of proteins. This gene may play a role in the development and normal function of the ovaries. Defects in this protein have been linked to premature ovarian failure 2.

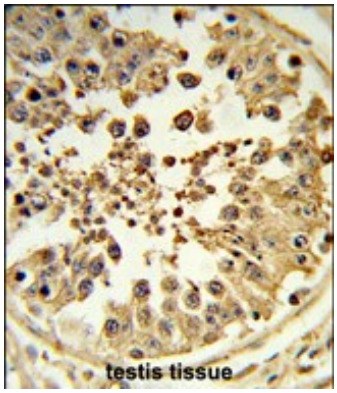
References

Olsen, J.V., et al. Cell 127(3):635-648(2006)
Olsen, J.V., et al. Cell 127(3):635-648(2006)
Yasuda, S., et al. Nature 428(6984):767-771(2004)
Gasman, S., et al. Nat. Cell Biol. 5(3):195-204(2003)
Satoh, S., et al. J. Biol. Chem. 276(42):39290-39294(2001)

Images

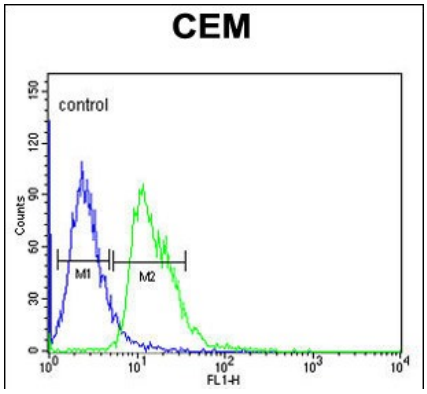


Western blot analysis of DIAPH2 Antibody (Center) (Cat. #AP9407c) in 293, MDA-MB435 cell line lysates (35ug/lane). DIAPH2 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human testis tissue reacted with DIAPH2 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

DIAPH2 Antibody (Center) (Cat. #AP9407c) flow cytometric analysis of CEM cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary



antibodies were used for the analysis.