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DIAPH2 Rabbit pAb

Catalog # AP99212

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O60879
Other Accession	O60879
Reactivity	Rat
Predicted	Human, Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	125569
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DIAPH2/Dia2
Epitope Specificity	901-1101/1101
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the formin homology family. Diaphanous subfamily. Contains 1 DAD (diaphanous autoregulatory) domain. Contains 1 FH1 (formin homology 1) domain. Contains 1 FH2 (formin homology 2) domain. Contains 1 GBD/FH3 (Rho GTPase-binding/formin homology 3) domain.
SUBUNIT	Isoform 3 interacts with RHOD in the GTP-bound form.
DISEASE	Defects in DIAPH2 are the cause of premature ovarian failure type 2A (POF2A) [MIM:300511]. An ovarian disorder defined as the cessation of ovarian function under the age of 40 years. It is characterized by oligomenorrhea or amenorrhea, in the presence of elevated levels of serum gonadotropins and low estradiol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The product of this gene 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 gene have been linked to premature ovarian failure 2. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	1730
Other Names	DIA; DIA2; DRF2; POF; POF2; POF2A; DIAP2_HUMAN; DIAPH2; Diaphanous-related formin-2 (DRF2); diaphanous related formin 2; diaphanous (Drosophila, homolog) 2; diaphanous homolog 2 (Drosophila); Premature ovarian failure 2A
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.