



## Anti-DIA-2 (RABBIT) Antibody - 600-401-851

**Code:** 600-401-851

**Size:** 100 µg

**Product Description:** Anti-DIA-2 (RABBIT) Antibody - 600-401-851

**Concentration:** 1.4 mg/mL by UV absorbance at 280 nm

**PhysicalState:** Liquid (sterile filtered)

<b>Label</b>	Unconjugated
<b>Host</b>	Rabbit
<b>Gene Name</b>	DIAPH2
<b>Species Reactivity</b>	human
<b>Buffer</b>	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
<b>Stabilizer</b>	None
<b>Preservative</b>	0.01% (w/v) Sodium Azide
<b>Storage Condition</b>	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
<b>Synonyms</b>	DIA-2, DIA drome, Dia2, DIAPH2, Diaphanous 2, Diaphanous related formin 2, Diaphorase 2, DRF2, POF and POF2
<b>Application Note</b>	This affinity purified antibody has been tested for use in ELISA and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 125 kDa in size corresponding to DIA-2 by western blotting in the appropriate cell lysate or extract. Alternate splice variants have been described for this protein. This antibody will only react with DIA-156 (isoform 1 of DIA-2).
<b>Background</b>	DIA-2 (also called DIA drome, Dia2, DIAPH2, Diaphanous 2, Diaphanous related formin 2, Diaphorase 2, DRF2, POF and POF2) may play a role in the development and normal function of the ovaries. Mutations of this gene have been linked to premature ovarian failure. Alternative splicing results in two protein isoforms. Furthermore, each splice variant undergoes additional splicing in the 3' UTR. Overall 4 splice variants have been described. DIA-2 is expressed in testis, ovary, small intestine, prostate, lung, liver, kidney and leukocytes and can be found from E16 in ovary and testis and during P6-P16 during differentiation of ovarian follicles. Isoform 1 is referred to as DIA-156, whereas isoform 2 is called DIA-12C.
<b>Purity And Specificity</b>	This affinity purified antibody is directed against human DIA-2. The product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest reactivity with this protein from human based on 100% homology for the immunogen sequence. However, cross reactivity is expected with mouse DIA-2 based on a 93% homology to the immunogen sequence. Cross reactivity with DIA-2 homologues from other sources has not been determined.
<b>Assay Dilutions</b>	User Optimized
<b>ELISA</b>	1:12,000 - 1:60,000
<b>WESTERN BLOT</b>	1:1,000 - 1:6,000
<b>OTHER ASSAYS</b>	User Optimized
<b>Expiration</b>	Expiration date is one (1) year from date of opening.
<b>Immunogen</b>	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding aa 1085-1101 of Human DIA-2.
<b>General Reference</b>	<p>Katoh,M. and Katoh,M. (2003) Identification and characterization of human FMNL1, FMNL2 and FMNL3 genes in silico. Int. J. Oncol. 22 (5), 1161-1168.</p> <p>Bione,S., et al. (1998) A human homologue of the Drosophila melanogaster diaphanous gene is disrupted in a patient with premature ovarian failure: evidence for conserved function in oogenesis and implications for human sterility. Am. J. Hum. Genet. 62 (3), 533-541.</p> <p>Lynch,E.D., Lee,M.K., Morrow,J.E., Welcsh,P.L., Leon,P.E. and King,M.C. (1997) Nonsyndromic deafness DFNA1 associated with mutation of a human homolog of the Drosophila gene diaphanous. Science 278 (5341), 1315-1318.</p>

### Related Products

600-401-998	Anti-ROCK-2 (Rho-associated Protein Kinase-2) pY256 (RABBIT) Antibody - 600-401-998
611-1302	Anti-RABBIT IgG (H&L) (GOAT) Antibody Peroxidase Conjugated - 611-1302
611-142-122	Anti-RABBIT IgG (H&L) (GOAT) Antibody DyLight™ 549 Conjugated (Min X Bv Ch Gt GP Ham Hs Hu Ms Rt & Sh Serum Proteins) - 611-142-122

## Related Links

## Images

- Western blot using Rockland's Affinity Purified anti-DIA-2 antibody shows detection of a 132-kDa band corresponding to DIA-2 in a lysate prepared from human derived HEK293 cells. Approximately 20 ug of lysate was run on a SDS-PAGE and transferred onto nitrocellulose followed by reaction with a 1:500 dilution of anti-DIA-2 antibody. Detection occurred using a 1:5,000 dilution of HRP-labeled Goat anti-Rabbit IgG for 1 hour at room temperature. A chemiluminescence system was used for signal detection (Roche) using a 1 min exposure time.



## Disclaimer

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