

Datasheet for 600-401-BK3**GDPD5 Antibody****Overview**

Description:	Anti-GDPD5 (RABBIT) Antibody - 600-401-BK3
Item No.:	600-401-BK3
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	The glycerophosphodiester phosphodiesterase domain containing 5 (GDPD5) protein, also known as GDE2, is a seven transmembrane, widely expressed protein (1) that is necessary for spinal motor neuron differentiation and retinoid-induced neuronal outgrowth (2,3). Altered choline phospholipid metabolism is a hallmark of cancer, and the elevated expression of GDPD5 correlates with malignant choline phospholipid metabolite profiles in human breast cancer (4).
Synonyms:	GDPD5 Antibody, GDE2, PP1665, GDE2, PP6037, PP9363, UNQ1850/PRO3580, Glycerophosphodiester phosphodiesterase domain-containing protein 5, Glycerophosphodiester phosphodiesterase 2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	GDPD5
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-GDPD5 antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid peptide near the N-terminus of human GDPD5.

Purity/Specificity:	Anti-GDPD5 antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. GDPD5 antibody is human, mouse and rat reactive. At least three isoforms of GDPD5 are known to exist.
Relevant Links:	• UniProtKB - Q8WTR4 • GeneID - 81544 • NCBI - NP_110419

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-GDPD5 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 69 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:20,000
IF:	20 µg/mL
IHC:	5 µg/mL
WB:	1-2 µg/mL

Formulation

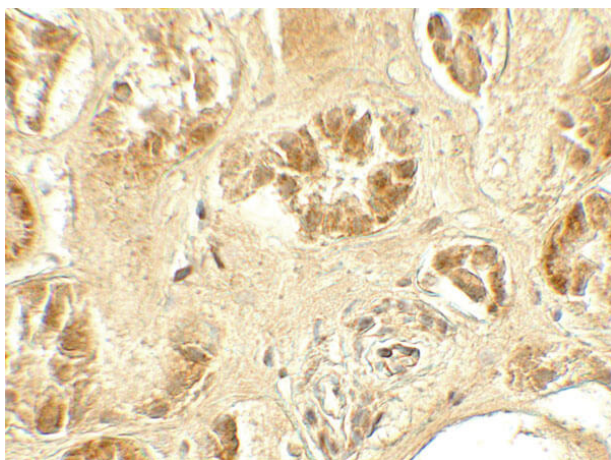
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

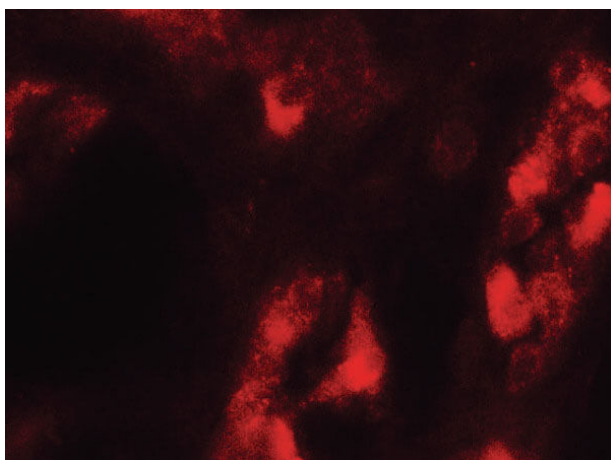
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration:

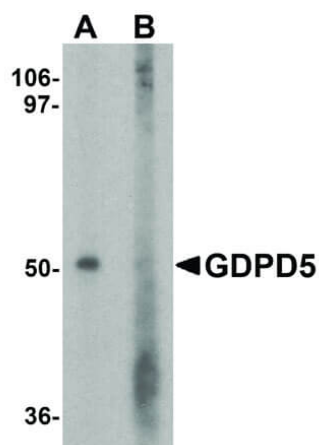
Expiration date is one (1) year from date of receipt.

Images**Immunohistochemistry**

Immunohistochemistry of Rabbit anti-GDPD5 antibody.
Tissue: human kidney. Primary antibody: GDPD5 antibody at 5 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:5,000. Localization: GDPD5 is cytoplasmic. Staining: GDPD5 as precipitated brown signal.

**Immunofluorescence Microscopy**

Immunofluorescence Microscopy of Rabbit anti-GDPD5 antibody. Tissue: human kidney. Primary antibody: GDPD5 antibody at 20 µg/mL. Secondary antibody: Fluorescein rabbit secondary antibody at 1:20,000. Localization: GDPD5 is cytoplasmic. Staining: GDPD5 as red fluorescent signal.



Western Blot

Western Blot of Rabbit anti-GDPD5 antibody. Lane A: mouse kidney tissue lysate in absence of blocking peptide. Lane B: mouse kidney tissue lysate the presence of blocking peptide. Primary antibody: GDPD5 antibody at 1 μ g/mL overnight at 4°C. Secondary antibody: Goat anti-Rabbit HRP secondary antibody. Block: 5% BLOTTO. Predicted/Observed size: 235 kDa, 240 kDa for GDPD5.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.