Datasheet for ABIN6991987

anti-GDPD5 antibody (N-Term)

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Overview

Quantity:	0.1 mg
Target:	GDPD5
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GDPD5 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF)

Product Details

Immunogen:	GDPD5 antibody was raised against an 18 amino acid peptide near the amino terminus of human GDPD5. The immunogen is located within the first 50 amino acids of GDPD5.
Isotype:	IgG
Specificity:	GDPD5 antibody is human, mouse and rat reactive. At least three isoforms of GDPD5 are known to exist.
Purification:	GDPD5 antibody is affinity chromatography purified via peptide column.

Target Details

Target:	GDPD5
Alternative Name:	GDPD5 (GDPD5 Products)

Target 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).
Molecular Weight:	Predicted: 40, 67 kDa Observed: 52 kDa
Gene ID:	81544
NCBI Accession:	NP_110419
UniProt:	Q8WTR4

Application Details

Application Notes:	GDPD5 antibody can be used for detection of GDPD5 by Western blot at 1 - 2 µ,g/mL. Antibody can also be used for Immunohistochemistry at 5 µ,g/mL. For Immunoflorescence start at 20 µ, g/mL. Antibody validated: Western Blot in mouse samples, Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.
Restrictions:	For Research Use only

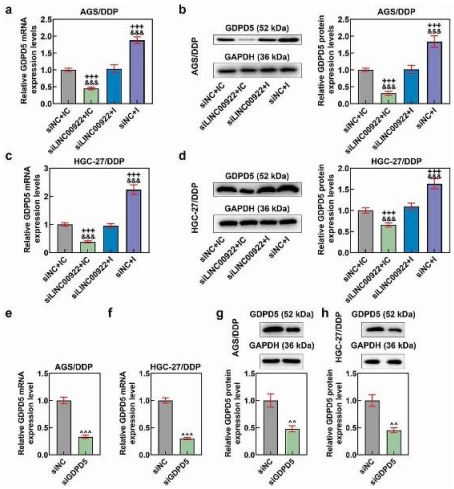
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	GDPD5 Antibody is supplied in PBS containing 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,4 °C
Storage Comment:	GDPD5 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.

Publications

Product cited in: Zhang, Dai, Zhao, Wang, Dou, Zhuang, Chen, Zhao et al.: "MiR-874-3p represses the migration and invasion yet promotes the apoptosis and cisplatin sensitivity via being sponged by long intergenic non-coding RNA 00922 (LINC00922) and targeting ..." in: **Bioengineered**, Vol. 13, Issue 3, pp. 7082-7104, (2022) (PubMed).

Validation report #104416 for Cleavage Under Targets and Release Using Nuclease (CUT&RUN)



Western Blotting

Image 1. MiR-874-3p downregulation eliminated the effects of LINC00922 silencing on GDPD5 in DDP-resistant GC cells, the expression of which was also decreased via transfection. (a-d) The effects of LINC00922 silencing and miR-874-3p downregulation on GDPD5 expression of DDP-resistant GC cell AGS/DDP (a-b) and HGC-27/DDP (c-d) were determined by qRT-PCR and Western blot. GAPDH was the housekeeping gene. (e-h) GDPD5 expression was measured again in DDP-resistant GC cell AGS/DDP and HGC-27/DDP following the transfection of siGDPD5, as evidenced by qRT-PCR (e-f) and Western blot (g-h). GAPDH was the housekeeping gene. All data were expressed as mean ± standard deviation (SD), which was indicative of three independent tests. +++p < 0.001, vs. siNC+IC; &&&p < 0.001, vs. siLINC00922 + I; ^^^p < 0.001, vs. siNC. Source: PMID35282764