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GDPD5 Antibody (center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10992c

Product Information

Application	WB, E
Primary Accession	Q8WTR4
Other Accession	NP_110419.5
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	68586
Antigen Region	342-369

Additional Information

Gene ID	81544
Other Names	Glycerophosphodiester phosphodiesterase domain-containing protein 5, 31--, Glycerophosphodiester phosphodiesterase 2, GDPD5, GDE2
Target/Specificity	This GDPD5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 342-369 amino acids from the Central region of human GDPD5.
Dilution	WB~~1:1000 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	GDPD5 Antibody (center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GDPD5 (HGNC:28804)
Function	Glycerophosphodiester phosphodiesterase that promotes neurite formation and drives spinal motor neuron differentiation (By similarity). Mediates the cleavage of glycosylphosphatidylinositol (GPI) anchor of target proteins: removes the GPI-anchor of RECK, leading to release RECK from the plasma

	membrane (By similarity). May contribute to the osmotic regulation of cellular glycerophosphocholine (By similarity).
Cellular Location	Endomembrane system {ECO:0000250|UniProtKB:Q640M6}; Multi-pass membrane protein. Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:Q640M6}. Cell projection, growth cone {ECO:0000250|UniProtKB:Q640M6}. Note=In a punctate perinuclear pattern {ECO:0000250|UniProtKB:Q640M6}

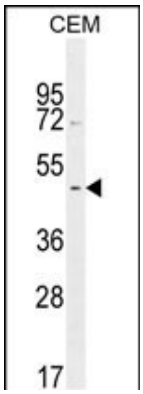
Background

Glycerophosphodiester phosphodiesterases (GDPDs; EC 3.1.4.46), such as GDPD5, are involved in glycerol metabolism (Lang et al., 2008 [PubMed 17578682]).

References

Lang, Q., et al. Mol. Biol. Rep. 35(3):351-359(2008) Rao, M., et al. Science 309(5744):2212-2215(2005) Wan, D., et al. Proc. Natl. Acad. Sci. U.S.A. 101(44):15724-15729(2004) Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003)

Images



GDPD5 Antibody (center) (Cat. #AP10992c) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the GDPD5 antibody detected the GDPD5 protein (arrow).

Citations

- Glycerophosphodiester phosphodiesterase domain containing 5 (GDPD5) expression correlates with malignant choline phospholipid metabolite profiles in human breast cancer.