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Anti-GPIPLD Antibody

Catalog # AP51816

Product Information

Application	WB, IHC, IF/IC
Primary Accession	P80108
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	92336

Additional Information

Gene ID	2822
Other Names	PIGPLD1; Phosphatidylinositol-glycan-specific phospholipase D; PI-G PLD; Glycoprotein phospholipase D; Glycosyl-phosphatidylinositol-specific phospholipase D; GPI-PLD; GPI-specific phospholipase D
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human GPIPLD. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

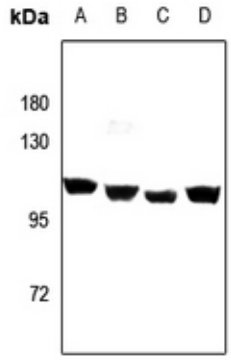
Protein Information

Name	GPLD1 (HGNC:4459)
Synonyms	PIGPLD1
Function	Hydrolyzes the inositol phosphate linkage of glycosylphosphatidylinositol (GPI)-anchored membrane proteins, thereby releasing them from the cell surface. Cleaves on the inositol side of the anchor, leaving the phosphate group attached to the membrane (PubMed:17720976, PubMed:2760042). This release of GPI-anchored proteins can modulate diverse biological processes, including the activation of signaling pathways (PubMed:17720976).
Cellular Location	Secreted. Note=Associated with the High-Density Lipoproteins (HDL) {ECO:0000250|UniProtKB:P80109}

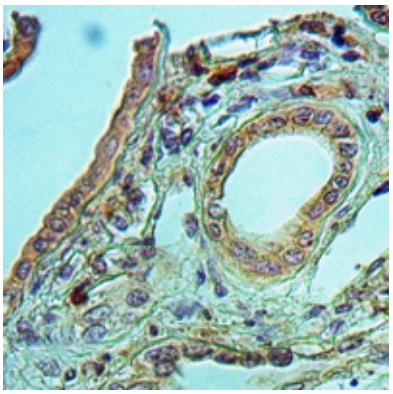
References

Tsang T.C.,et al.FASEB J. 6:A1922-A1922(1992).
Schofield J.N.,et al.Biochim. Biophys. Acta 1494:189-194(2000).
Tang J.H.,et al.Hunan Yi Ke Da Xue Xue Bao 26:96-97(2001).
Mungall A.J.,et al.Nature 425:805-811(2003).
Hoener M.C.,et al.Eur. J. Biochem. 206:747-757(1992).

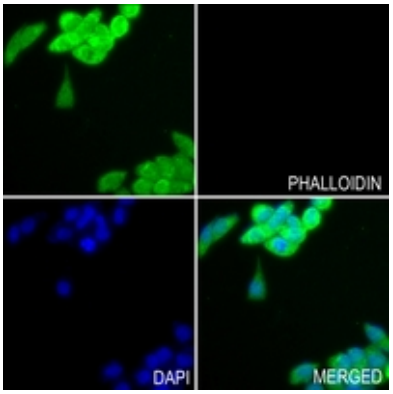
Images



Western blot analysis of GPIPLD expression in PC3 (A), A2780 (B), C6 (C), 3T3L1 (D) whole cell lysates. (Predicted band size: 92 kD; Observed band size: 100 kD)



Immunohistochemical analysis of GPIPLD staining in human kidney cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of GPIPLD staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).