#13891 Store at -20C

PLD2 (E1Y9L) Rabbit mAb



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Applications: IHC-P	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 95	Source/Isotype: Rabbit IgG	UniProt ID: #O14939	Entrez-Gene ld: 5338	
Product Usage Information	Ар	Application			Dilution		
	Imr	Immunohistochemistry (Paraffin)				1:250	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sens	sitivity PLD	PLD2 (E1Y9L) Rabbit mAb recognizes endogenous levels of total PLD2 protein.					
Source / Purifica		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala880 of human PLD2 protein.					
Background	chol Two sma and	Phosphatidylcholine-specific phospholipase D (PLD) hydrolyzes phosphatidylcholine (PC) to produce choline and phosphatidic acid (PA). PA is the precursor of the second messenger, diacylglycerol (DAG). Two isoforms of PLD (PLD1 and PLD2) have been identified so far. Both are regulated by protein kinases, small GTPases and Ca2+ (1). The PLD2 isoform is highly expressed in many cancers, such as colorectal and breast cancers (2,3). PLD2 also acts as a guanine nucleotide exchange factor for the small GTPase Rac2 independent of its phospholipase activity (4).					
Background References 1. Exton, J.H. (1999) Biochim Biophys Acta 1439, 121-33. 2. Oshimoto, H. et al. (2003) Oncol Res 14, 31-7. 3. Henkels, K.M. et al. (2013) Oncogene 32, 5551-62. 4. Mahankali, M. et al. (2011) Proc Natl Acad Sci U S A 108, 19617-22.							

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

IHC-P: Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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