5249 Store at -200

cPLA2 (D49A7) Rabbit mAb



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Applications: WB, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 98	Source/Isotype: Rabbit IgG	UniProt ID: #P47712	Entrez-Gene Id: 5321	
Product Usage Information	Ap	plication		Dilution			
	We	estern Blotting		1:1000			
	Imi	munoprecipitation			1:50		
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 cPL	cPLA2 (D49A7) Rabbit mAb detects endogenous levels of total cPLA2 protein.					
Source / Purifica		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu245 of human cPLA2 protein.					
Background	the has cyto cPL Pho	Cytosolic phospholipase A2 (cPLA2) is a ubiquitously distributed enzyme that catalyzes the hydrolysis of the sn-2 acyl bond of glycerolipids to produce lysophospholipids and release arachidonic acid (1). cPLA2 has been implicated in diverse cellular responses such as mitogenesis, differentiation, inflammation and cytotoxicity (1). Calcium binding to the amino-terminal CalB domain of cPLA2 promotes the translocation of cPLA2 from cytosol to membrane, where cPLA2 cleaves arachidonic acid from natural membrane (2). Phosphorylation of cPLA2 by MAPK (p42/44 and p38) at Ser505 (3,4) and Ser727 (5) stimulates its catalytic activity.					
Background Ref	2. C 3. L 4. K	 Leslie, C.C. (1997) J. Biol. Chem. 272, 16709-16712. Clark, J. D. et al. (1991) Cell 65, 1043-1051. Lin, L. L. et al. (1993) Cell 72, 269-278. Kramer, R.M. (1996) J. Biol. Chem. 271, 27723-27729. Hefner, Y. et al. (2000) J. Biol. Chem. 275, 37542-37551. 					

Species Reactivity

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

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting IP: Immunoprecipitation

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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