#53044 Store at -20C

Phospho-cPLA2 (Ser505) (D4I2A) Rabbit mAb



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Applications: WB, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 95	Source/Isotype: Rabbit IgG	UniProt ID: #P47712	Entrez-Gene Id: 5321
Product Usage Information	Ap	plication		Dilution		
	We	estern Blotting		1:1000		
	lmı	munoprecipitation		1:100		
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 / Sensi		Phospho-cPLA2 (Ser505) (D4I2A) Rabbit mAb recognizes endogenous levels of cPLA2 protein only when phosphorylated at Ser505.				
Source / Purificati		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser505 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 Refer	2. C 3. Li 4. K	Leslie, C.C. (1997) <i>J. Biol. Chem.</i> 272, 16709-16712. Clark, J. D. et al. (1991) <i>Cell</i> 65, 1043-1051. Lin, L. L. et al. (1993) <i>Cell</i> 72, 269-278. Cramer, R.M. (1996) <i>J. Biol. Chem.</i> 271, 27723-27729. Hefner, Y. et al. (2000) <i>J. Biol. Chem.</i> 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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