## cPLA2 (D11H4) Rabbit mAb



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## For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: Re W, IP, IHC-P	eactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 98	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P47712	Entrez-Gene Id: 5321
Product Usage Information		Application Western Blotting Immunoprecipitation Immunohistochemistry (Paraffin)			<b>Dilution</b> 1:1000 1:50 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		cPLA2 (D11H4) Rabbit mAb detects endogenous levels of total cPLA2 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala452 of human cPLA2 protein.				
Background  Background References		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.				
		1. Leslie, C.C. (1997) <i>J. Biol. Chem.</i> 272, 16709-16712. 2. Clark, J. D. et al. (1991) <i>Cell</i> 65, 1043-1051. 3. Lin, L. L. et al. (1993) <i>Cell</i> 72, 269-278. 4. Kramer, R.M. (1996) <i>J. Biol. Chem.</i> 271, 27723-27729. 5. Hefner, Y. et al. (2000) <i>J. Biol. Chem.</i> 275, 37542-37551.				
Species Reactivity		Species reactivity is det	ermined by testin	g in at least one approve	ed 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		W: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)				
Cross-Reactivity Key		H: Human				
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