

PLA2G1B (D1T4C) Rabbit mAb

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	M R	Endogenous	16	Rabbit IgG	#P04054	5319

Product Usage Information	Application	Dilution
	Western Blotting	1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
Specificity/Sensitivity	PLA2G1B (D1T4C) Rabbit mAb recognizes endogenous levels of total PLA2G1B protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu80 of human PLA2G1B protein.	
Background	Phospholipase A2 (PLA2) is a superfamily of enzymes that hydrolyze glycerol-3-phosphocholines and release fatty acids and lysophospholipids (1). PLA2G1B is a member of this superfamily in the 1B group that is expressed most highly in the pancreatic acinar cells (2). Evidence suggests that PLA2G1B plays a role in the absorption and storage of extra energy as fats are metabolized (1,2). Lysophospholipids generated by PLA2G1B inhibit fatty acid oxidation in the liver and reduce energy expenditure, leading to diet-induced obesity and type 2 diabetes with a high fat diet (1). Therefore, a potential intervention of obesity and diabetes could target PLA2G1B in the digestive tract (2).	
Background References	<ol style="list-style-type: none"> Labonté, E.D. et al. (2010) <i>FASEB J</i> 24, 2516-24. Cash, J.G. et al. (2011) <i>Int J Obes (Lond)</i> 35, 877-81. 	

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	W: Western Blotting
Cross-Reactivity Key	M: Mouse R: Rat
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