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PLA2G1B Antibody

Store at -20C
#8962

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

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 16	Source/Isotype: Rabbit	UniProt ID: #P04054	Entrez-Gene Id: 5319
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Product Usage Information

Application

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

PLA2G1B Antibody recognizes endogenous levels of total PLA2G1B protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala131 of human PLA2G1B protein. Antibodies are purified by protein A and peptide affinity chromatography.

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

- Labonté, E.D. et al. (2010) *FASEB J* 24, 2516-24.
- Cash, J.G. et al. (2011) *Int J Obes (Lond)* 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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

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