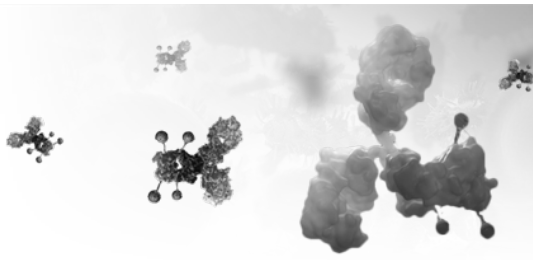

Rabbit Anti-Mouse PLA2G1B monoclonal antibody, clone S115 (CABT-ZB1012)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	It reacts with Mouse PLA2G1B
Target	PLA2G1B
Immunogen	Recombinant Mouse PLA2G1B Protein
Isotype	IgG1
Source/Host	Rabbit
Species Reactivity	Mouse
Clone	S115
Purification	Protein A purified
Conjugate	Unconjugated
Applications	ELISA(det) We recommend the following for sandwich ELISA (Capture - Detection): CABT-ZB678 - CABT-ZB1012 This antibody will detect PLA2G1B in antibody pair set. [ABPR-ZB257]
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Mouse PLA2G1B.
Format	Purified, Liquid
Concentration	Lot specific
Size	50 µL, 100 µL, 1 mL

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Buffer	PBS
Preservative	None
Storage	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Ship	Wet ice

BACKGROUND

Introduction	phospholipase A2, also known as Phosphatidylcholine 2-acylhydrolase 1B, Group IB phospholipase A2, PLA2 and PLA2G1B, is a secreted protein that belongs to the phospholipase A2 family. Phospholipase A2/PLA2G1B catalyzes the release of fatty acids from glycero-3-phosphocholines. The best known varieties are the digestive enzymes secreted as zymogens by the pancreas of mammals. Sequences of pancreatic Phospholipase A2/PLA2G1B enzymes from a variety of mammals have been reported. One striking feature of these enzymes is their close homology to venom phospholipases of snakes. Other forms of Phospholipase A2/PLA2G1B have been isolated from brain, liver, lung, spleen, intestine, macrophages, leukocytes, erythrocytes, inflammatory exudates, chondrocytes, and platelets. Mice lacking in Phospholipase A2/PLA2G1B are resistant to obesity and diabetes induced by feeding a diabetogenic high-fat/high-carbohydrate diet. Oral supplementation of a diabetogenic diet with the PLA2G1B inhibitor methyl indoxam effectively suppresses diet-induced obesity and diabetes. PLA2G1B inhibition may be a potentially effective oral therapeutic option for treatment of obesity and diabetes.
Keywords	PLA2G1B; phospholipase A2, group IB (pancreas); PLA2, PLA2A, PPLA2; phospholipase A2

GENE INFORMATION

Synonyms	PLA2G1B; phospholipase A2, group IB (pancreas); PLA2, PLA2A, PPLA2; phospholipase A2; group IB phospholipase A2; phosphatidylcholine 2-acylhydrolase 1B; PLA2; PLA2A; PPLA2; MGC119834; MGC119835
Entrez Gene ID	18778
UniProt ID	Q9Z0Y2

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