

For Research Use Only

PLA2R1 Polyclonal antibody

Catalog Number: 18798-1-AP

Featured Product

1 Publications



Basic Information

Catalog Number: 18798-1-AP	GenBank Accession Number: BC144631	Purification Method: Antigen affinity purification
Size: 150ul	GeneID (NCBI): 22925	
Source: Rabbit	Full Name: phospholipase A2 receptor 1, 180kDa	
Isotype: IgG	Calculated MW: 168 kDa	

Applications

Tested Applications:
ELISA

Cited Applications:
WB

Species Specificity:
human

Cited Species:
human

Background Information

Secretory phospholipase A2 (sPLA2) are implicated in a number of crucial physiological and pathological processes in mammals. Different types of membrane receptors for sPLA2s have been identified. The M-type receptor, PLA2R1 (phospholipase A2 receptor 1, 180 kDa), is a type I transmembrane glycoprotein containing extracellularly a cysteine-rich domain, a fibronectin type II domain and eight carbohydrate-recognition domains. It is a receptor for phospholipase sPLA2-IB/PLA2G1B but not sPLA2-IIA/PLA2G2A. It is also able to bind to snake PA2-like toxins. PLA2R1 may be involved in responses in proinflammatory cytokine productions during endotoxic shock. It also has endocytic properties and rapidly internalizes sPLA2 ligands, which is particularly important for the clearance of extracellular sPLA2s to protect their potent enzymatic activities. It has been recently shown that PLA2R1 is the major target antigen in idiopathic membranous nephropathy (iMN). Patients with iMN have antibodies against a conformation-dependent epitope in PLA2R1.

Notable Publications

Author	Pubmed ID	Journal	Application
N D Quach	25189995	Mol Pharm	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
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Selected Validation Data