



Secretory phospholipase A2 mouse mAb

Catalog No	YP-mAb-18008
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	PLA2G2A PLA2B PLA2L RASF-A
Immunogen	Synthesized peptide derived from human Secretory phospholipase A2
Specificity	This antibody detects endogenous levels of Secretory phospholipase A2 at Human, Mouse,Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	PLA2G2A;PLA2G2A PLA2B PLA2L RASF-A;Phospholipase A2;membrane associated (EC 3.1.1.4) (GIIC sPLA2) (Group IIA phospholipase A2) (Non-pancreatic secretory phospholipase A2) (NPS-PLA2) (Phosphatidylcholine 2-acylhydrolase 2A); membrane associated (EC 3.1.1.4) (GIIC sPLA2) (Group IIA phospholipase A2) (Non-pancreatic secretory phospholipase A2) (NPS-PLA2) (Phosphatidylcholine 2-acylhydrolase 2A)
Observed Band	16kD
Calculated Molecular Weight	16kD
Cell Pathway	Secreted . Cell membrane ; Peripheral membrane protein . Mitochondrion outer membrane ; Peripheral membrane protein .
Tissue Specificity	kidney, liver, lung, pancreas, placenta, skeletal muscle, prostate, ovary, colon and small intestine. Not detected in lymphoid organs and brain (PubMed:10455175, PubMed:10681567). Expressed in platelets (at protein level) (PubMed:25082876).
Function	Secretory calcium-dependent phospholipase A2 that primarily targets extracellular phospholipids with implications in host antimicrobial defense, inflammatory response and tissue regeneration . Hydrolyzes the ester bond of the fatty acyl group attached at sn-2 position of phospholipids (phospholipase



A2 activity) with preference for phosphatidylethanolamines and phosphatidylglycerols over phosphatidylcholines . Contributes to lipid remodeling of cellular membranes and generation of lipid mediators involved in pathogen clearance. Displays bactericidal activity against Gram-positive bacteria by directly hydrolyzing phospholipids of the bacterial membrane . Upon sterile inflammation, targets membrane phospholipids of extracellular mitochondria released from activated platelets, generating free unsaturated fatty acids such as arachidonate that is used by neighboring leukocytes to synthesize

Background

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images