PLA2G10 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PLA2G10, Polyclonal Antibody
Full Product Name	PLA2G10 (Group 10 Secretory Phospholipase A2, Group X Secretory Phospholipase A2, GX sPLA2, sPLA2-X, Phosphatidylcholine 2-acylhydrolase 1
Product Gene Name	anti-PLA2G10 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human PLA2G10.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	18,153 Da
OMIM	603603
3D Structure	ModBase 3D Structure for O15496
Immunogen	Full length human PLA2G10, aa1-165 (NP_003552.1).
Immunogen Sequence	MGPLPVCLPIMLLLLLPSLLLLLLLPGPGSGEASRILRVHRRGILELAGTVGCVGPRTPIAYMKYGCFCGLGGHGQPRDAIDWCCHGHDCCYTRAEEAGCS
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-PLA2G10 antibody	Antibodies; Enzymes; Phospholipase
Applications Tested/Suitable for anti-PLA2G10 antibody	Western Blot (WB)
Application Notes for anti-PLA2G10 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-PLA2G10 antibody	PA2 catalyzes the calcium-dependent hydrolysis of the 2-acyl groups in 3-sn-phosphoglycerides. Has a powerful potency for releasing arachidonic acid liposomes to those of phosphatidylserine.

Other Notes	Small volumes of anti-PLA2G10 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If nec cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PLA2G10 purchase	MBS6389644 is an antibody targeting PLA2G10. Also known as PLA2G10 (Group 10 Secretory Phospholipase A2, Group X Secretory Phospholipase MGC133367) (MaxLight 650). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PLA2G10. It may not necessarily be applicable to this product.

NCBI GI #	4505845
NCBI GeneID	8399
NCBI Accession #	NP_003552.1
UniProt Primary Accession #	O15496
UniProt Secondary Accession #	Q14DU3; Q6NT23
UniProt Related Accession #	O15496
GenBank Nucleotide #	NM_003561.1
NCBI Official Full Name	group 10 secretory phospholipase A2
NCBI Official Synonym Full Names	phospholipase A2, group X
NCBI Official Symbol	PLA2G10
NCBI Official Synonym Symbols	SPLA2; GXPLA2; GXSPLA2
UniProt Protein Name	Group 10 secretory phospholipase A2
UniProt Synonym Protein Names	Group X secretory phospholipase A2; GX sPLA2; sPLA2-X; Phosphatidylcholine 2-acylhydrolase 10
Protein Family	Group 10 secretory phospholipase
UniProt Gene Name	PLA2G10
UniProt Synonym Gene Names	GX sPLA2; sPLA2-X
UniProt Entry Name	PA2GX_HUMAN
NCBI Protein Information	group 10 secretory phospholipase A2; GX sPLA2; group X secretory phospholipase A2; phosphatidylcholine 2-acylhydrolase 10; sPLA2-X
UniProt Comments for PLA2G10	PLA2G10: PA2 catalyzes the calcium-dependent hydrolysis of the 2- acyl groups in 3-sn-phosphoglycerides. Has a powerful potency for releasing arachidonic acid from cell membrane phospholipids. Prefers phosphatidylethanolamine and phosphatidylcholine liposomes to those of phosphatidylserine. Belongs to the phospholipase A2 family. Protein type: Secreted; Lipid Metabolism - arachidonic acid; Secreted, signal peptide; Cell development/differentiation; Lipid Metabolism - ether lipid; Lipid Metabolism - alpha-linolenic acid; Lipid Metabolism - linoleic acid; Phospholipase; Lipid Metabolism - glycerophospholipid; EC 3.1.1.4; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 16p13.1-p12 Cellular Component: extracellular region Molecular Function: phospholipase A2 activity; calcium ion binding; phospholipase activity Biological Process: axon guidance; cholesterol homeostasis; phospholipid metabolic process; negative regulation of transcription factor activity; regulation of macrophage activation; lysophospholipid transport; positive regulation of cellular protein metabolic process; glycerophospholipid biosynthetic process; positive regulation of prostaglandin secretion; phosphatidic acid biosynthetic process; arachidonic acid metabolic process; lipid catabolic process

Research Articles on PLA2G10	**1.** hGX sPLA2 is a novel modulator of lipid metabolism that promotes breast cancer cell growth and survival by stimulating lipid droplet formation and fatty acid oxidation.
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