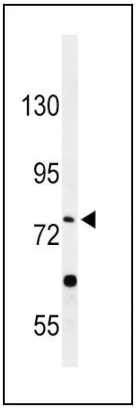
PLA2G6 Antibody – Rabbit Polyclonal

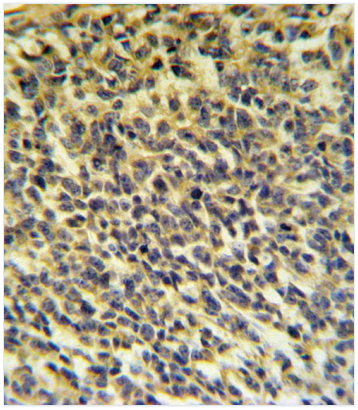
PRODUCT OVERVIEW

Product Name	PLA2G6, Polyclonal Antibody
Full Product Name	PLA2G6, ID (PLA2G6, IPLA2, 85kD calcium-independent phospholipase A2, Group VI phospholipase A2) (Biotin)
Product Gene Name	anti-PLA2G6 antibody
Product Synonym Names	PLA2G6; IPLA2; 85kD calcium-independent phospholipase A2; Group VI phospholipase A2
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 Biotin.
Purity/Purification	Purified by saturated ammonium sulfate precipitation followed by dialysis against PBS.
Specificity	Recognizes human PLA2G6
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	89,903 Da
Chromosome Location	Chromosome: 22; NC_000022.10 (38507502..38577836, complement). Location: 22q13.1
OMIM	256600
3D Structure	ModBase 3D Structure for O60733
Immunogen	PLA2G6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 558~588 amino acids from the Central region of human PLA2G6.
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-PLA2G6 antibody	Antibodies; Enzymes; Phospholipase
Applications Tested/Suitable for anti-PLA2G6 antibody	Flow Cytometry (FC/FACS), ELISA (EIA), Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-PLA2G6 antibody	FC/FACS: 1:10-50 ELISA: 1:1,000 IHC: 1:50-100 WB: 1:50-100 Applications are based on unconjugated antibody.
Related Product Information for anti-PLA2G6 antibody	The protein encoded by this gene is an A2 phospholipase, a class of enzyme that catalyzes the release of fatty acids from phospholipids. The encoded protein may play a role in phospholipid remodelling, arachidonic acid release, leukotriene and prostaglandin synthesis, fas-mediated apoptosis, and transmembrane ion flux in glucose-stimulated B-cells.
Product References and Citations for anti-PLA2G6 antibody	Ayilavarapu, S., et al. J. Immunol. 184(3):1507-1515(2010). Guey, L.T., et al. Eur. Urol. 57(2):283-292(2010). Tan, E.K., et al. Ann. Neurol. 67 (1), 148 (2010). Hosgood, H.D. III, et al. Respir Med 103(12):1866-1870(2009).

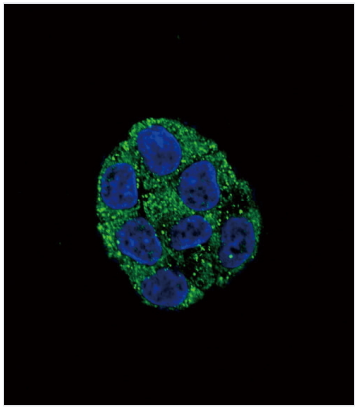
Other Notes	Small volumes of anti-PLA2G6 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PLA2G6 purchase	MBS6334577 is an antibody targeting PLA2G6. Also known as PLA2G6, ID (PLA2G6, IPLA2, 85kD calcium-independent phospholipase A2, Group VI phospholipase A2) (Biotin). Reactive in Human. Host: Rabbit.



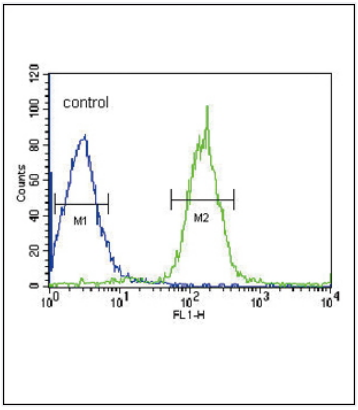
Western Blot (WB) of anti-PLA2G6 antibody
Western blot analysis of PLA2G6 Antibody (Center) in HepG2 cell line lysates (35ug/lane). PLA2G6 (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-PLA2G6 antibody
PLA2G6 Antibody (Center) IHC analysis in formalin fixed and paraffin embedded testis carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the PLA2G6 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



Immunofluorescence (IF) of anti-PLA2G6 antibody
Confocal immunofluorescent analysis of PLA2G6 Antibody (Center) with HepG2 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



Flow Cytometry (FC/FACS) of anti-PLA2G6 antibody
PLA2G6 Antibody (Center) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PLA2G6. It may not necessarily be applicable to this product.

NCBI GI #	52486251
NCBI GeneID	8398
NCBI Accession #	NP_001004426.1
UniProt Primary Accession #	O60733
UniProt Secondary Accession #	O75645; Q8N452; Q9UG29; Q9UIT0; Q9Y671; A8K597; B0QYE8
UniProt Related Accession #	O60733
GenBank Nucleotide #	NM_001004426.1
NCBI Official Full Name	85/88 kDa calcium-independent phospholipase A2 isoform b

NCBI Official Synonym Full Names	phospholipase A2, group VI (cytosolic, calcium-independent)
NCBI Official Symbol	PLA2G6
NCBI Official Synonym Symbols	GVI; PLA2; INAD1; NBIA2; iPLA2; NBIA2A; NBIA2B; PARK14; PNPLA9; CaI-PLA2; IPLA2-VIA; iPLA2beta
UniProt Protein Name	85/88 kDa calcium-independent phospholipase A2
UniProt Synonym Protein Names	Group VI phospholipase A2; GVI PLA2; Intracellular membrane-associated calcium-independent phospholipase A2 beta; iPLA2-beta; Patatin-like phospholipase domain-containing protein 9
Protein Family	85/88 kDa calcium-independent phospholipase
UniProt Gene Name	PLA2G6
UniProt Synonym Gene Names	PLPLA9; CaI-PLA2; GVI PLA2; iPLA2-beta; PNPLA9
UniProt Entry Name	PLPL9_HUMAN
NCBI Protein Information	85/88 kDa calcium-independent phospholipase A2; GVI PLA2; iPLA2-beta; group VI phospholipase A2; 85 kDa calcium-independent phospholipase A2; patatin-like phospholipase domain containing 9; cytosolic, calcium-independent phospholipase A2; neurodegeneratio
NCBI Summary for PLA2G6	The protein encoded by this gene is an A2 phospholipase, a class of enzyme that catalyzes the release of fatty acids from phospholipids. The encoded protein may play a role in phospholipid remodelling, arachidonic acid release, leukotriene and prostaglandin synthesis, fas-mediated apoptosis, and transmembrane ion flux in glucose-stimulated B-cells. Several transcript variants encoding multiple isoforms have been described, but the full-length nature of only three of them have been determined to date. [provided by RefSeq, Dec 2010]
UniProt Comments for PLA2G6	PLA2G6: Catalyzes the release of fatty acids from phospholipids. It has been implicated in normal phospholipid remodeling, nitric oxide-induced or vasopressin-induced arachidonic acid release and in leukotriene and prostaglandin production. May participate in fas mediated apoptosis and in regulating transmembrane ion flux in glucose-stimulated B-cells. Has a role in cardiolipin (CL) deacylation. Required for both speed and directionality of monocyte MCP1/CCL2-induced chemotaxis through regulation of F- actin polymerization at the pseudopods. Defects in PLA2G6 are the cause of neurodegeneration with brain iron accumulation type 2B (NBIA2B). A neurodegenerative disorder associated with iron accumulation in the brain, primarily in the basal ganglia. It is characterized by progressive extrapyramidal dysfunction leading to rigidity, dystonia, dysarthria and sensorimotor impairment. Defects in PLA2G6 are the cause of neurodegeneration with brain iron accumulation type 2A (NBIA2A); also known as Seitelberger disease. NBIA2A is a neurodegenerative disease characterized by pathologic axonal swelling and spheroid bodies in the central nervous system. Onset is within the first 2 years of life with death by age 10 years. Defects in PLA2G6 are the cause of Parkinson disease type 14 (PARK14). An adult-onset progressive neurodegenerative disorder characterized by parkinsonism, dystonia, severe cognitive decline, cerebral and cerebellar atrophy and absent iron in the basal ganglia on magnetic resonance imaging. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Lipid Metabolism - linoleic acid; Phospholipase; Lipid Metabolism - glycerophospholipid; Lipid Metabolism - alpha-linolenic acid; EC 3.1.1.4; Lipid Metabolism - ether lipid; Lipid Metabolism - arachidonic acid Chromosomal Location of Human Ortholog: 22q13.1 Cellular Component: membrane; mitochondrion; cytoplasm; microtubule organizing center; cytosol Molecular Function: calmodulin binding; phospholipase A2 activity; ATP-dependent protein binding; calcium-independent phospholipase A2 activity Biological Process: urinary bladder smooth muscle contraction; cardiolipin biosynthetic process; maternal process involved in pregnancy; glycerophospholipid biosynthetic process; negative regulation of synaptic transmission, glutamatergic; chemotaxis; positive regulation of vasodilation; memory; elevation of cytosolic calcium ion concentration; phospholipid metabolic process; innate immune response; positive regulation of protein amino acid phosphorylation; lipid catabolic process; positive regulation of exocytosis Disease: Parkinson Disease 14, Autosomal Recessive; Neurodegeneration With Brain Iron Accumulation 2b; Neurodegeneration With Brain Iron Accumulation 2a
Research Articles on PLA2G6	**1.** Neuronal phospholipid deacylation is essential for axonal and synaptic integrity through the action of iPLA2 and NTE. (Review)

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