

KD-Validated Anti-Phospholipid Scramblase 3 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1675**Specification****KD-Validated Anti-Phospholipid Scramblase 3 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC
Primary Accession	Q9NRY6
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 32 kDa , observed, 32 kDa
Gene Name	PLSCR3
Aliases	PLSCR3; Phospholipid Scramblase 3; Ca(2+)-Dependent Phospholipid Scramblase 3; PL Scramblase 3
Immunogen	A synthesized peptide derived from human PLSCR3

KD-Validated Anti-Phospholipid Scramblase 3 Rabbit Monoclonal Antibody - Additional Information

Gene ID	57048
Other Names	
Phospholipid scramblase 3, PL scramblase 3, Ca(2+)-dependent phospholipid scramblase 3, PLSCR3	

KD-Validated Anti-Phospholipid Scramblase 3 Rabbit Monoclonal Antibody - Protein Information**Name** PLSCR3**Function**

Catalyzes calcium-induced ATP-independent rapid bidirectional and non-specific movement of the phospholipids (lipid scrambling or lipid flip-flop) between the inner and outer membrane of the mitochondria (PubMed:<[a href="http://www.uniprot.org/citations/14573790" target="_blank">14573790](http://www.uniprot.org/citations/14573790), PubMed:<[a href="http://www.uniprot.org/citations/17226776" target="_blank">17226776](http://www.uniprot.org/citations/17226776), PubMed:<[a href="http://www.uniprot.org/citations/18358005" target="_blank">18358005](http://www.uniprot.org/citations/18358005), PubMed:<[a href="http://www.uniprot.org/citations/29337693" target="_blank">29337693](http://www.uniprot.org/citations/29337693), PubMed:<[a href="http://www.uniprot.org/citations/31769662" target="_blank">31769662](http://www.uniprot.org/citations/31769662)). Plays an important role in mitochondrial respiratory function, morphology, and apoptotic response (PubMed:<[a href="http://www.uniprot.org/citations/12649167" target="_blank">12649167](http://www.uniprot.org/citations/12649167), PubMed:<[a href="http://www.uniprot.org/citations/14573790" target="_blank">14573790](http://www.uniprot.org/citations/14573790), PubMed:<[a href="http://www.uniprot.org/citations/17226776" target="_blank">17226776](http://www.uniprot.org/citations/17226776), PubMed:<[a href="http://www.uniprot.org/citations/18358005" target="_blank">18358005](http://www.uniprot.org/citations/18358005)). Mediates the translocation of cardiolipin from the mitochondrial inner membrane to outer membrane enhancing

t-Bid induced cytochrome c release and apoptosis (PubMed:14573790, PubMed:17226776, PubMed:18358005). Enhances TNFSF10-induced apoptosis by regulating the distribution of cardiolipin in the mitochondrial membrane resulting in increased release of apoptogenic factors and consequent amplification of the activity of caspases (PubMed:18491232). Regulates cardiolipin de novo biosynthesis and its resynthesis (PubMed:16939411).

Cellular Location

Mitochondrion membrane; Single-pass type II membrane protein {ECO:0000250|UniProtKB:Q6QBQ4}. Mitochondrion inner membrane {ECO:0000250|UniProtKB:Q6QBQ4}; Single-pass type II membrane protein {ECO:0000250|UniProtKB:Q6QBQ4}. Nucleus {ECO:0000250|UniProtKB:Q9JIZ9}
Note=Palmitoylation regulates its localization to the cell membrane or the nucleus; trafficking to the cell membrane is dependent upon palmitoylation whereas in the absence of palmitoylation, localizes to the nucleus. {ECO:0000250|UniProtKB:Q9JIZ9}

Tissue Location

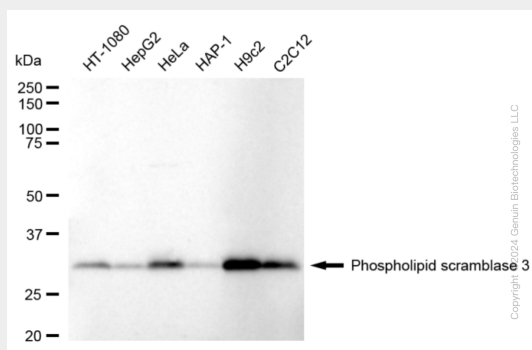
Expressed in heart, placenta, lung, liver, skeletal muscle, kidney, pancreas, spleen, thymus, prostate, uterus, small intestine and peripheral blood lymphocytes. Not detected in testis, brain and liver

KD-Validated Anti-Phospholipid Scramblase 3 Rabbit Monoclonal Antibody - Protocols

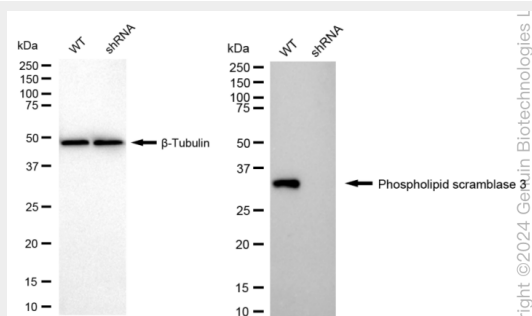
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

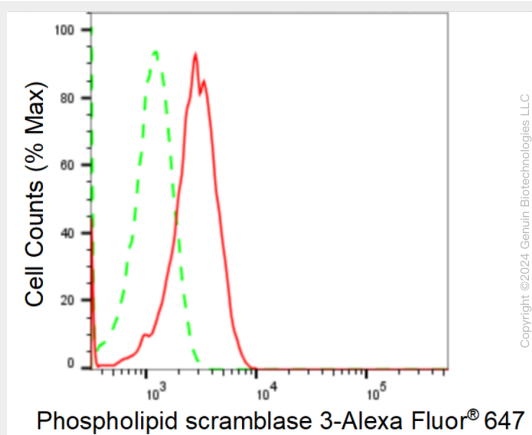
KD-Validated Anti-Phospholipid Scramblase 3 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Phospholipid scramblase 3 antibody (Cat#AGI1675). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Phospholipid scramblase 3 antibody (Cat#AGI1675, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Phospholipid scramblase 3 antibody (Cat#AGI1675). Phospholipid scramblase 3 expression in wild type (WT) and Phospholipid scramblase 3 shRNA knockdown (KD) HeLa cells with 20 μ g of total cell lysates. β -Tubulin serves as a loading control. The blot was incubated with anti-Phospholipid scramblase 3 antibody (Cat#AGI1675, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Phospholipid scramblase 3 expression in H9c2 cells using anti-Phospholipid scramblase 3 antibody (Cat#AGI1675, 1:2,000). Green, isotype control; red, Phospholipid scramblase 3.