

# PLSCR3 Rabbit mAb

Catalog # AP75928

## Product Information

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<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">Q9NRY6</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	IgG
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Affinity Purified
<b>Calculated MW</b>	31648

## Additional Information

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<b>Gene ID</b>	57048
<b>Other Names</b>	PLSCR3
<b>Dilution</b>	WB~~1/500-1/1000
<b>Format</b>	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

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<b>Name</b>	PLSCR3
<b>Function</b>	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="#">14573790</a> , PubMed: <a href="#">17226776</a> , PubMed: <a href="#">18358005</a> , PubMed: <a href="#">29337693</a> , PubMed: <a href="#">31769662</a> ). Plays an important role in mitochondrial respiratory function, morphology, and apoptotic response (PubMed: <a href="#">12649167</a> , PubMed: <a href="#">14573790</a> , PubMed: <a href="#">17226776</a> , PubMed: <a href="#">18358005</a> ). Mediates the translocation of cardiolipin from the mitochondrial inner membrane to outer membrane enhancing t-Bid induced cytochrome c release and apoptosis (PubMed: <a href="#">14573790</a> , PubMed: <a href="#">17226776</a> , PubMed: <a href="#">18358005</a> ). 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: <a href="#">18491232</a> ). Regulates cardiolipin de novo biosynthesis and its resynthesis (PubMed: <a href="#">16939411</a> ).

## 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}

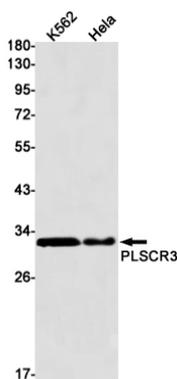
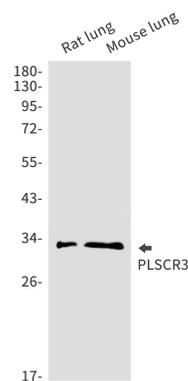
## Tissue Location

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

## Background

May mediate accelerated ATP-independent bidirectional transbilayer migration of phospholipids upon binding calcium ions that results in a loss of phospholipid asymmetry in the plasma membrane. May play a central role in the initiation of fibrin clot formation, in the activation of mast cells and in the recognition of apoptotic and injured cells by the reticuloendothelial system. Seems to play a role in apoptosis, through translocation of cardiolipin from the inner to the outer mitochondrial membrane which promotes BID recruitment and enhances tBid-induced mitochondrial damages.

## Images



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