

PLSCR3 antibody - middle region

Rabbit Polyclonal Antibody

Catalog # AI14111

Product Information

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| Application | WB |
| Primary Accession | Q9NRY6 |
| Other Accession | NM_020360 , NP_065093 |
| Reactivity | Human, Mouse, Rat, Rabbit, Zebrafish, Dog, Guinea Pig, Horse, Bovine |
| Predicted | Mouse, Rabbit, Dog, Guinea Pig, Bovine |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 31648 |

Additional Information

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| Gene ID | 57048 |
| Other Names | Phospholipid scramblase 3, PL scramblase 3, Ca(2+)-dependent phospholipid scramblase 3, PLSCR3 |
| Format | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. |
| Reconstitution & Storage | Add 50 ul of distilled water. Final anti-PLSCR3 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles. |
| Precautions | PLSCR3 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

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| 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: 14573790 , PubMed: 17226776 , PubMed: 18358005 , PubMed: 29337693 , PubMed: 31769662). Plays an important role in mitochondrial respiratory function, morphology, and apoptotic response (PubMed: 12649167 , PubMed: 14573790 , PubMed: 17226776 , PubMed: 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}

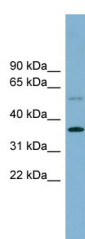
Tissue Location

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

References

Wiedmer T.,et al.Biochim. Biophys. Acta 1467:244-253(2000).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Zody M.C.,et al.Nature 440:1045-1049(2006).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
He Y.,et al.J. Cell. Biochem. 101:1210-1221(2007).

Images



WB Suggested Anti-PLSCR3 Antibody Titration: 0.2-1
µg/ml
Positive Control: Human Placenta

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.