

PLSCR1 antibody - N-terminal region

Rabbit Polyclonal Antibody

Catalog # AI14134

Product Information

Application	WB
Primary Accession	O15162
Other Accession	NM_021105 , NP_066928
Reactivity	Human
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35049

Additional Information

Gene ID	5359
Alias Symbol	MMTRA1B
Other Names	Phospholipid scramblase 1, PL scramblase 1, Ca(2+)-dependent phospholipid scramblase 1, Erythrocyte phospholipid scramblase, MmTRA1b, PLSCR1
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-PLSCR1 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	PLSCR1 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PLSCR1
Function	Catalyzes calcium-induced ATP-independent rapid bidirectional and non-specific movement of phospholipids (lipid scrambling or lipid flip-flop) between the inner and outer leaflet of the plasma membrane resulting in collapse of the phospholipid asymmetry which leads to phosphatidylserine externalization on the cell surface (PubMed: 10770950 , PubMed: 18629440 , PubMed: 23590222 , PubMed: 23659204 , PubMed: 24343571 , PubMed: 24648509 , PubMed: 29748552 , PubMed: 32110987 , PubMed: 8663431 , PubMed: 9218461 , PubMed: 9485382 , PubMed: 9572851). Mediates calcium-dependent phosphatidylserine externalization and apoptosis in neurons via its association with TRPC5 (By similarity). Also exhibits

magnesium-dependent nuclease activity against double- stranded DNA and RNA but not single-stranded DNA and can enhance DNA decatenation mediated by TOP2A (PubMed:[17567603](#), PubMed:[27206388](#)). Negatively regulates FcR-mediated phagocytosis in differentiated macrophages (PubMed:[26745724](#)). May contribute to cytokine-regulated cell proliferation and differentiation (By similarity). May play a role in the antiviral response of interferon (IFN) by amplifying and enhancing the IFN response through increased expression of select subset of potent antiviral genes (PubMed:[15308695](#)). Inhibits the functions of viral transactivators, including human T-cell leukemia virus (HTLV)-1 protein Tax, human immunodeficiency virus (HIV)-1 Tat, human hepatitis B virus (HBV) HBx, Epstein-Barr virus (EBV) BZLF1 and human cytomegalovirus IE1 and IE2 proteins through direct interactions (PubMed:[22789739](#), PubMed:[23501106](#), PubMed:[25365352](#), PubMed:[31434743](#), PubMed:[35138119](#)). Also mediates the inhibition of influenza virus infection by preventing nuclear import of the viral nucleoprotein/NP (PubMed:[29352288](#), PubMed:[35595813](#)). Plays a crucial role as a defense factor against SARS-CoV-2 independently of its scramblase activity by directly targeting nascent viral vesicles to prevent virus-membrane fusion and the release of viral RNA into the host-cell cytosol (PubMed:[37438530](#)).

Cellular Location

Cell membrane; Single-pass type II membrane protein. Cell membrane; Lipid-anchor; Cytoplasmic side. Nucleus. Cytoplasm. Cytoplasm, perinuclear region Note=Localizes to the perinuclear region in the presence of RELT (PubMed:22052202). 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 (PubMed:12564925)

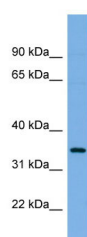
Tissue Location

Expressed in platelets, erythrocyte membranes, lymphocytes, spleen, thymus, prostate, testis, uterus, intestine, colon, heart, placenta, lung, liver, kidney and pancreas. Not detected in brain and skeletal muscle.

References

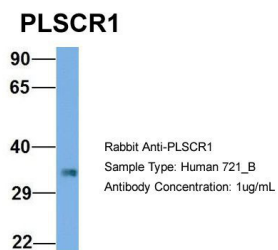
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 Ota T.,et al.Nat. Genet. 36:40-45(2004).
 Muzny D.M.,et al.Nature 440:1194-1198(2006).

Images

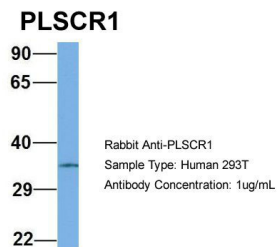


WB Suggested Anti-PLSCR1 Antibody Titration: 0.2-1
 µg/ml
 ELISA Titer: 1:1562500
 Positive Control: Hela cell lysate

Host:Rabbit
 Target Name:PLSCR1



Sample Tissue:Human 721_B
Antibody Dilution: 1.0µg/mlPLSCR1 is supported by
BioGPS gene expression data to be expressed in 721_B



Host:Rabbit
Target Name:PLSCR1
Sample Tissue:Human 293T
Antibody Dilution: 1.0µg/mlPLSCR1 is strongly supported
by BioGPS gene expression data to be expressed in
Human HEK293T cells

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