

AM03021SU-N**Monoclonal Antibody to PLSCR1 - Ascites**

Alternate names:	Phospholipid Scramblase 1
Quantity:	0.1 ml
Background:	<p>PLSCR1 (Phospholipid Scramblase 1) is a multiply palmitoylated endofacial plasma membrane protein containing several SH3 and WW domain binding motives. In the plasma membrane, PLSCR1 plays a role in transbilayer lipid redistributions and signal transduction.</p> <p>Nonpalmitoylated PLSCR1, however, is able to be transported into the nucleus and bind DNA. PLSCR1 potentiates the antiviral activity of interferon and its expression is highly induced by interferons and growth factors.</p>
Host / Isotype:	Mouse / IgG2a
Clone:	13A6 [TEC-23]
Immunogen:	BALB/c mice were immunized with pooled lipid rafts isolated from RBL-2H3 cells. Hybridoma cells were obtained after fusion of SP02 mouse myeloma cells with spleen cells of immunized mice using standard procedures.
Format:	State: Liquid Undiluted Ascites Preservatives: 15 mM Sodium Azide
Applications:	Immunoprecipitation. Western Blotting: 1 µg/ml. Flow Cytometry. Immunocytochemistry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	<p>This antibody binds to rat Phospholipid Scramblase 1 (PLSCR1), an 37-49 kDa membrane-associated protein accelerating bidirectional movement of plasma membrane phospholipids during conditions of elevated calcium.</p> <p>Species: Rat. Other species not tested.</p>
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE! Shelf life: one year from despatch.
Product Citations:	Originator or purchased from resellers: 1. Smrz D, Lebduska P, Dráberová L, Korb J, Dráber P: Engagement of Phospholipid Scramblase 1 in Activated Cells: IMPLICATION FOR PHOSPHATIDYLSERINE EXTERNALIZATION AND EXOCYTOSIS. J Biol Chem. 2008 Apr 18;283(16):10904-18.
General Readings:	1. Pastorelli C, Veiga J, Charles N, Voignier E, Moussu H, Monteiro RC, Benhamou M: IgE receptor type I-dependent tyrosine phosphorylation of phospholipid scramblase. J Biol Chem. 2001 Jun 8;276(23):20407-12. Epub 2001 Mar 20. 2. Silverman RH, Halloum A, Zhou A, Dong B, Al-Zoghaibi F, Kushner D, Zhou Q, Zhao J, Wiedmer T, Sims PJ: Suppression of ovarian carcinoma cell growth in vivo by the interferon-inducible plasma membrane protein, phospholipid scramblase 1. Cancer

Res. 2002 Jan 15;62(2):397-402.

3. Dong B, Zhou Q, Zhao J, Zhou A, Harty RN, Bose S, Banerjee A, Slee R, Guenther J, Williams BR, Wiedmer T, Sims PJ, Silverman RH: Phospholipid scramblase 1 potentiates the antiviral activity of interferon. J Virol. 2004 Sep;78(17):8983-93.

Protocols:**Western Blot:**

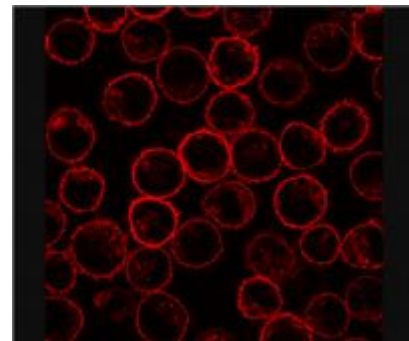
Positive control: RBL Rat basophilic leukemia cell line.

Sample preparation: Resuspend approx. 50 mil. cells in 1 ml cold Lysis buffer (1% Triton X-100 in 20 mM Tris/Cl, 100 mM NaCl, 2 mM EDTA, 2 mM Na3Vo4, 10 mM glycerolphosphate, pH 8.0, 1 mM PMSF, 10 µg/ml aprotinin). Incubate 20 min on ice. Centrifuge to remove cell debris. Mix lysate with non-reducing/reducing LaemmlI SDS-PAGE sample buffer. Boil for 5 min.

Note: Both reducing and non-reducing conditions.

Pictures:

Immunofluorescence staining of PLSCR1 in rat basophilic leukemia (RBL) cell line using 13A6 antibody.



Detection of PLSCR1 in rat basophilic leukemia (RBL) cell line lysate (A) and in PLSCR1 immunoprecipitate from RBL lysate (B). The antibody 13A6 was used both for immunoprecipitation and immunodetection.

