

## Anti-Scramblase 1 Rabbit Monoclonal Antibody Catalog # ABO15697

### Specification

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#### Anti-Scramblase 1 Rabbit Monoclonal Antibody - Product Information

Application	WB, IF, ICC, IP, FC
Primary Accession	<a href="#">O15162</a>
Host	Rabbit
Isotype	IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid

#### Description

Anti-Scramblase 1 Rabbit Monoclonal Antibody . Tested in WB, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human.

#### Anti-Scramblase 1 Rabbit Monoclonal Antibody - Additional Information

Gene ID 5359

#### Other Names

Phospholipid scramblase 1, PL scramblase 1, Ca(2+)-dependent phospholipid scramblase 1, Erythrocyte phospholipid scramblase, Mg(2+)-dependent nuclease, 3.1.-., MmTRA1b, PLSCR1

#### Calculated MW

35 kDa KDa

#### Application Details

WB 1:500-1:2000<br>ICC/IF 1:50-1:200<br>IP 1:50<br>FC 1:50

#### Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

#### Immunogen

A synthesized peptide derived from human Scramblase 1

#### Purification

Affinity-chromatography

#### Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

#### Anti-Scramblase 1 Rabbit Monoclonal Antibody - 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:<a href="http://www.uniprot.org/citations/10770950" target="\_blank">10770950</a>, PubMed:<a href="http://www.uniprot.org/citations/18629440" target="\_blank">18629440</a>, PubMed:<a href="http://www.uniprot.org/citations/23590222" target="\_blank">23590222</a>, PubMed:<a href="http://www.uniprot.org/citations/23659204" target="\_blank">23659204</a>, PubMed:<a href="http://www.uniprot.org/citations/24343571" target="\_blank">24343571</a>, PubMed:<a href="http://www.uniprot.org/citations/24648509" target="\_blank">24648509</a>, PubMed:<a href="http://www.uniprot.org/citations/29748552" target="\_blank">29748552</a>, PubMed:<a href="http://www.uniprot.org/citations/32110987" target="\_blank">32110987</a>, PubMed:<a href="http://www.uniprot.org/citations/8663431" target="\_blank">8663431</a>, PubMed:<a href="http://www.uniprot.org/citations/9218461" target="\_blank">9218461</a>, PubMed:<a href="http://www.uniprot.org/citations/9485382" target="\_blank">9485382</a>, PubMed:<a href="http://www.uniprot.org/citations/9572851" target="\_blank">9572851</a>). 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:<a href="http://www.uniprot.org/citations/17567603" target="\_blank">17567603</a>, PubMed:<a href="http://www.uniprot.org/citations/27206388" target="\_blank">27206388</a>). Negatively regulates FcR-mediated phagocytosis in differentiated macrophages (PubMed:<a href="http://www.uniprot.org/citations/26745724" target="\_blank">26745724</a>). 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:<a href="http://www.uniprot.org/citations/15308695" target="\_blank">15308695</a>). 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:<a href="http://www.uniprot.org/citations/22789739" target="\_blank">22789739</a>, PubMed:<a href="http://www.uniprot.org/citations/23501106" target="\_blank">23501106</a>, PubMed:<a href="http://www.uniprot.org/citations/25365352" target="\_blank">25365352</a>, PubMed:<a href="http://www.uniprot.org/citations/31434743" target="\_blank">31434743</a>, PubMed:<a href="http://www.uniprot.org/citations/35138119" target="\_blank">35138119</a>). Mediates also the inhibition of influenza virus infection by preventing nuclear import of the viral nucleoprotein/NP (PubMed:<a href="http://www.uniprot.org/citations/29352288" target="\_blank">29352288</a>, PubMed:<a href="http://www.uniprot.org/citations/35595813" target="\_blank">35595813</a>). 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:<a href="http://www.uniprot.org/citations/37438530" target="\_blank">37438530</a>).

## 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

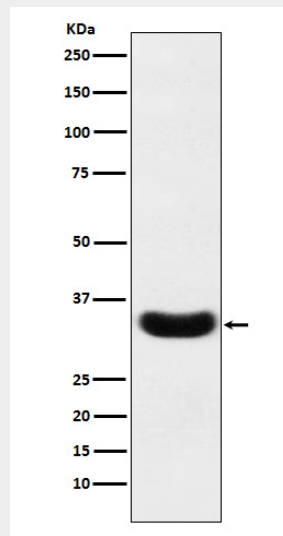
Expressed in platelets, erythrocyte membranes, lymphocytes, spleen, thymus, prostate, testis, uterus, intestine, colon, heart, placenta, lung, liver, kidney and pancreas. Not detected in brain and skeletal muscle.

## Anti-Scramblase 1 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](#)

## Anti-Scramblase 1 Rabbit Monoclonal Antibody - Images



Western blot analysis of Scramblase 1 expression in A431 cell lysate.