Datasheet for ABIN7602709

# anti-SERAC1 antibody (AA 97-623)

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## Overview

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| Quantity: | 100 µg |
| Target: | SERAC1 |
| Binding Specificity: | AA 97-623 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This SERAC1 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Flow Cytometry (FACS) |

## Product Details

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| Purpose: | Anti-SERAC1 Antibody Picoband® |
| Immunogen: | E.coli-derived human SERAC1 recombinant protein (Position: E97-H623). |
| Isotype: | IgG |
| Cross-Reactivity (Details): | No cross-reactivity with other proteins. |
| Characteristics: | Anti-SERAC1 Antibody Picoband® (ABIN7602709). Tested in ELISA, Flow Cytometry, IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |
| Purification: | Immunogen affinity purified. |

## Target Details

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| Target: | SERAC1 |
| Alternative Name: | SERAC1 (SERAC1 Products) |
| Background: | Synonyms: FERM domain-containing protein 6, Willin, FRMD6, C14orf31<br>Tissue Specificity: Expressed in fetal and adult brain. Also detected in fetal liver and skeletal muscle, but not in their adult counterparts.<br>Background: Serine active site-containing protein 1, or Protein SERAC1 is a protein in humans that is encoded by the SERAC1 gene. The protein encoded by this gene is a phosphatidylglycerol remodeling protein found at the interface of mitochondria and endoplasmic reticula, where it mediates phospholipid exchange. The encoded protein plays a major role in mitochondrial function and intracellular cholesterol trafficking. Defects in this gene are a cause of 3-methylglutaconic aciduria with deafness, encephalopathy, and Leigh-like syndrome (MEGDEL). Two transcript variants, one protein-coding and the other non-protein coding, have been found for this gene. |
| Molecular Weight: | 74, 20 kDa |
| Gene ID: | 84947 |
| Pathways: | Inositol Metabolic Process |

## Application Details

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| Application Notes: | Western blot, 0.25-0.5 µg/mL, Human<br>Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/mL, Human, Mouse, Rat<br>Flow Cytometry (Fixed), 1-3 µg/1x$10^6$ cells, Human<br>ELISA, 0.1-0.5 µg/mL, -<br>1. Hartz, P. A. Personal Communication. Baltimore, Md. 7/17/2012. 2. Lumish, H. S., Yang, Y., Xia, F., Wilson, A., Chung, W. K. The expanding MEGDEL phenotype: optic nerve atrophy, microcephaly, and myoclonic epilepsy in a child with SERAC1 mutations. JIMD Rep. 16: 75-79, 2014. 3. Maas, R. R., Iwanicka-Pronicka, K., Kalkan Ucar, S., Alhaddad, B., AlSayed, M., Al-Owain, M. A., Al-Zaidan, H. I., Balasubramaniam, S., Baric, I., Bubshait, D. K., Burlina, A., Christodoulou, J., and 46 others. Progressive deafness-dystonia due to SERAC1 mutations: a study of 67 cases. Ann. Neurol. 82: 1004-1015, 2017. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Lyophilized |

## Handling

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| Reconstitution: | Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL. |
| Concentration: | 500 µg/mL |
| Buffer: | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month.<br>It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing. |