

Datasheet for ABIN7600345
anti-Septin 4 antibody (AA 18-451)



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Overview

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| Quantity: | 100 µg |
| Target: | Septin 4 (SEPT4) |
| Binding Specificity: | AA 18-451 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This Septin 4 antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA, Flow Cytometry (FACS) |

Product Details

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| Purpose: | Anti-SEPT4/SEPTIN4 Antibody Picoband® |
| Immunogen: | E.coli-derived human SEPT4/SEPTIN4 recombinant protein (Position: E18-K451). |
| Isotype: | IgG |
| Cross-Reactivity (Details): | No cross-reactivity with other proteins. |
| Characteristics: | Anti-SEPT4/SEPTIN4 Antibody Picoband® (ABIN7600345). Tested in ELISA, Flow Cytometry, 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: | Septin 4 (SEPT4) |
| Alternative Name: | SEPTIN4 (SEPT4 Products) |
| Background: | <p>Synonyms: Mediator of RNA polymerase II transcription subunit 20, Mediator complex subunit 20, TRF-proximal protein homolog, hTRFP, MED20, TRFP,</p> <p>Tissue Specificity: Pre-B-cells and B-cells but not terminally differentiated plasma cells.</p> <p>Background: Septin 4 is a protein that in humans is encoded by the gene SEPTIN4. This gene is a member of the septin family of nucleotide binding proteins, originally described in yeast as cell division cycle regulatory proteins. Septins are highly conserved in yeast, Drosophila, and mouse, and appear to regulate cytoskeletal organization. Disruption of septin function disturbs cytokinesis and results in large multinucleate or polyploid cells. This gene is highly expressed in brain and heart. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. One of the isoforms (known as ARTS) is distinct, it is localized to the mitochondria, and has a role in apoptosis and cancer.</p> |
| Molecular Weight: | 50 kDa |
| Gene ID: | 5414 |
| UniProt: | O43236 |

Application Details

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| Application Notes: | <p>Western blot, 0.25-0.5 µg/mL, Mouse, Rat</p> <p>Flow Cytometry (Fixed), 1-3 µg/1×10⁶ cells, Human</p> <p>ELISA, 0.1-0.5 µg/mL, -</p> <p>1. Fuchs, Y., Brown, S., Gorenc, T., Rodriguez, J., Fuchs, E., Steller, H. Sept4/ARTS regulates stem cell apoptosis and skin regeneration. Science 341: 286-289, 2013. 2. Ihara, M., Kinoshita, A., Yamada, S., Tanaka, H., Tanigaki, A., Kitano, A., Goto, M., Okubo, K., Nishiyama, H., Ogawa, O., Takahashi, C., Itohara, S., Nishimune, Y., Noda, M., Kinoshita, M. Cortical organization by the septin cytoskeleton is essential for structural and mechanical integrity of mammalian spermatozoa. Dev. Cell 8: 343-352, 2005. 3. Ihara, M., Yamasaki, N., Hagiwara, A., Tanigaki, A., Kitano, A., Hikawa, R., Tomimoto, H., Noda, M., Takanashi, M., Mori, H., Hattori, N., Miyakawa, T., Kinoshita, M. Sept4, a component of presynaptic scaffold and Lewy bodies, is required for the suppression of alpha-synuclein neurotoxicity. Neuron 53: 519-533, 2007.</p> |
| Restrictions: | For Research Use only |

Handling

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| Format: | Lyophilized |
| 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 Na ₂ HPO ₄ . |
| 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. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing. |