Datasheet for ABIN7600301

# anti-SOS1 antibody (AA 177-1288)

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## Overview

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| Quantity: | 100 µg |
| Target: | SOS1 |
| Binding Specificity: | AA 177-1288 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This SOS1 antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS) |

## Product Details

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| Purpose: | Anti-SOS1 Antibody Picoband® |
| Immunogen: | E.coli-derived human SOS1 recombinant protein (Position: H177-A1288). Human SOS1 shares 96.5% amino acid (aa) sequence identity with mouse SOS1. |
| Characteristics: | Anti-SOS1 Antibody Picoband® (ABIN7600301). Tested in WB, IHC, Flow Cytometry, ELISA 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: | SOS1 |
| Alternative Name: | SOS1 (SOS1 Products) |
| Background: | Son of sevenless homolog 1 is a protein that in humans is encoded by the SOS1 gene. This gene encodes a protein that is a guanine nucleotide exchange factor for RAS proteins, membrane proteins that bind guanine nucleotides and participate in signal transduction pathways. GTP binding activates and GTP hydrolysis inactivates RAS proteins. The product of this gene may regulate RAS proteins by facilitating the exchange of GTP for GDP. Mutations in this gene are associated with gingival fibromatosis 1 and Noonan syndrome type 4. |
| Molecular Weight: | 170 kDa |
| Gene ID: | 6654 |
| UniProt: | Q07889 |
| Pathways: | RTK Signaling, TCR Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Hepatitis C, Signaling Events mediated by VEGFR1 and VEGFR2, Signaling of Hepatocyte Growth Factor Receptor, BCR Signaling |

## Application Details

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| Application Notes: | Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat<br>Immunohistochemistry, 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. Bowtell, D., Fu, P., Simon, M. A., Senior, P. Identification of murine homologues of the Drosophila Son of sevenless gene: potential activators of ras. Proc. Nat. Acad. Sci. 89: 6511-6515, 1992. 2. Chardin, P., Camonis, J. H., Gale, N. W., Van Aelst, L., Schlessinger, J., Wigler, M. H., Bar-Sagi, D. Human Sos1: a guanine nucleotide exchange factor for Ras that binds to GRB2. Science 260: 1338-1343, 1993. 3. Ferrero, G. B., Baldassarre, G., Delmonaco, A. G., Biamino, E., Banaudi, E., Carta, C., Rossi, C., Silengo, M. C. Clinical and molecular characterization of 40 patients with Noonan syndrome. Europ. J. Med. Genet. 51: 566-572, 2008. |
| 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. |

## Handling

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| 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. |