



## Rabbit antibody to SUMO-1 (6-21): whole serum

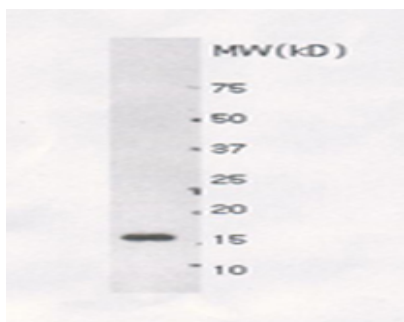
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|--------------------------|---|
| <b>Catalogue No.:</b>    | R-115-100   |
| <b>Description:</b>      | <b>FUNCTION:</b> Ubiquitin-like protein which binds to a wide range of target proteins. Does not seem to be involved in protein degradation and may function as an antagonist of ubiquitin in the degradation process. Plays a role in a number of cellular processes such as nuclear transport, DNA replication and repair, mitosis and signal transduction. Involved in targeting RANGAP1 to the nuclear pore complex protein RANBP2. <b>SUBUNIT:</b> Covalently attached to a number of proteins such as PML, RANGAP1, HIPK2, SP100, p53, p73alpha, MDM2, JUN and DNMT3B. Also interacts with HIF1A, HIPK2, HIPK3, CHD3, PIAS1, EXOSC9, TDG, RAD51 and RAD52. <b>SUBCELLULAR LOCATION:</b> Nucleus; nuclear membrane. Nucleus; nucleoplasm; nuclear speckle. Cytoplasm. <b>SIMILARITY:</b> Belongs to the ubiquitin family. SMT3 subfamily. <b>SIMILARITY:</b> Contains 1 ubiquitin-like domain. |
| <b>Batch No.:</b>        | See product label   |
| <b>Unit size:</b>        | 100 µl  |
| <b>Antigen:</b>          | A synthetic peptide (AKPSTEDLGDKKEGEY) as part of human SUMO-1 peptide (aa: 6-21) conjugated to diphtheria toxoid has been used as the immunogen. This antigen is homologous with SUMO-1 of rat.  |
| <b>Other Names:</b>      | Small ubiquitin-related modifier 1; Ubiquitin-like protein SMT3C; SMT3 homolog 3; Ubiquitin-homology domain protein PIC1; Ubiquitin-like protein UBL1; GAP-modifying protein 1; GMP1; Sentrin; SUMO1; SMT3C; SMT3H3; UBL1   |
| <b>Accession:</b>        | SUMO1_HUMAN   |
| <b>Produced in:</b>      | Rabbit  |
| <b>Purity:</b>           | Whole serum   |
| <b>Applications:</b>     | IHC, WB. A dilution of 1:1000 to 1:2000 is recommended for immunohistochemistry and 1:2000 to 1:4000 for western blot. Cell lysate from Hela and NIH-3T3 cell lysates may be used as a positive control, and for IHC, lung carcinoma may be used. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.   |
| <b>Specificity:</b>      | This antiserum recognises human SUMO-1 and not ubiquitin.   |
| <b>Cross-reactivity:</b> | This antiserum is known to cross react with rat and human SUMO-1.   |
| <b>Form:</b>             | Lyophilised   |
| <b>Reconstitution:</b>   | Reconstitute in 100 µl of sterile water. Centrifuge to remove any insoluble material.   |
| <b>Storage:</b>          | After reconstitution keep aliquots at -20°C for a higher stability, and at 4°C with an appropriate antibacterial agent. Glycerol (1:1) may be added for an additional stability. Avoid repetitive freeze/thaw cycles.   |
| <b>Expiry Date:</b>      | 12 months after purchase  |
| <b>References:</b>       | 1. Yang, S.H. et al. Mol. Cell 13(4):611-617 (2004).<br>2. Ohshima, T. et al. J. Biol. Chem. 278(51):50833-50842 (2003).<br>3. Bailey, D. et al. J. Biol. Chem. 279(1):692-703 (2004).<br>4. Ling, Y. et al. Nucleic Acids Res. 32(2):598-610 (2004).   |

FOR RESEARCH USE ONLY



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5. Pountney, D.L. et al. Exp. Neurol. 184(1):436-446 (2003).



Western blot detection of recombinant SUMO-1 protein using Rabbit antibody to SUMO-1 (6-21): ws (catalogue no. R-115-100) at a dilution of 1:4000. The protein sample was 1  $\mu$ l of E.Coli cell lysate containing approximately 50 ng of recombinant SUMO-1 protein. The antibody detects a band of 17 kDa.

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