

## Mouse Small Ubiquitin-Related Modifier 1 (SUMO1) ELISA Kit | SUMO1 elisa kit

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CATALOG #  
**AAA332292**

REACTIVITY  
**Mouse**

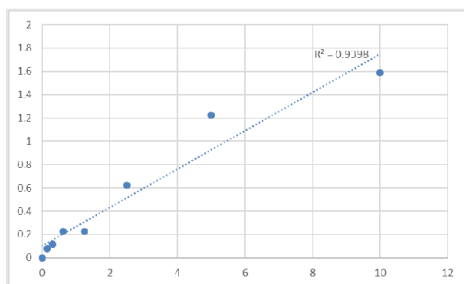
### PRODUCT SYNONYMS

Small Ubiquitin-Related Modifier 1 (SUMO1); Mouse Small Ubiquitin-Related Modifier 1 (SUMO1) ELISA Kit; SUMO1; DAP-1; GMP1; OFC10; PIC1; SENP2; SMT3; SMT3C; SMT3H3; SUMO-1; UBL1; GAP modifying protein 1; SMT3 suppressor of mif two 3 homolog 1; ubiquitin-like 1 (sentrin); SUMO1 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Reactivity              | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity             | Mouse Small ubiquitin-related modifier 1 (SUMO1) ELISA Kit has high sensitivity and excellent specificity for detection of Mouse SUMO1. No significant cross-reactivity or interference between Mouse SUMO1 and analogues was observed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Sequence Length         | 101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Assay Type              | Sandwich ELISA (Quantitative)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Samples                 | Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Detection Method        | Colorimetric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Usage Notes             | <ul style="list-style-type: none"> <li>* Do not mix components from different kit lots or use reagents beyond the kit expiration date.</li> <li>* Allow all reagents to warm to room temperature for at least 30 minutes before opening.</li> <li>* Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination.</li> <li>* Unused wells must be kept desiccated at 4 degree C in the sealed bag provided.</li> <li>* Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes.</li> <li>* It is recommended that all samples and standards be assayed in duplicate or triplicate.</li> </ul> |
| Preparation and Storage | Store at 2-8 degree C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

### IMAGES



**Standard Curve (Sample)**

Fig.1. Mouse Small ubiquitin-related modifier 1 (SUMO1) Standard Curve.

ADDITIONAL INFORMATION

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for SUMO1 elisa kit | <p>Description: This Mouse Small ubiquitin-related modifier 1 (SUMO1) ELISA Kit employs a two-site sandwich ELISA to quantitate SUMO1 in samples. An antibody specific for SUMO1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SUMO1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SUMO1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of SUMO1 bound in the initial step. The color development is stopped and the intensity of the color is measured.</p> <p>Background: Small ubiquitin-related modifier 1 is a member of the SUMO protein family. It functions in a manner similar to ubiquitin in that it is bound to target proteins as part of a post-translational modification system. However, unlike ubiquitin which targets proteins for degradation, this protein is involved in a variety of cellular processes, such as nuclear transport, transcriptional regulation, apoptosis, and protein stability. It is not active until the last four amino acids of the carboxy-terminus have been cleaved off. Several pseudogenes have been reported for this gene. Alternate transcriptional splice variants encoding different isoforms have been characterized. Sequence analysis of the corresponding gene, termed UBL1, revealed that the gene encodes a 101-amino acid polypeptide with homology to ubiquitin and other ubiquitin-like proteins.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                               |
|----------------------------------|---------------------------------------------------------------|
| NCBI GI #                        | 6678489                                                       |
| NCBI GeneID                      | 22218                                                         |
| NCBI Accession #                 | NP_033486.1                                                   |
| NCBI GenBank Nucleotide #        | NP_033486.1                                                   |
| UniProt Accession #              | P63166                                                        |
| NCBI Official Full Name          | small ubiquitin-related modifier 1                            |
| NCBI Official Synonym Full Names | small ubiquitin-like modifier 1                               |
| NCBI Official Symbol             | Sumo1                                                         |
| NCBI Official Synonym Symbols    | GMP1; PIC1; SMT3; Ubl1; SMTP3; Smt3C; SMT3H3; SUMO-1; SENTRIN |
| NCBI Protein Information         | small ubiquitin-related modifier 1                            |
| UniProt Protein Name             | Small ubiquitin-related modifier 1                            |
| UniProt Gene Name                | Sumo1                                                         |
| UniProt Synonym Gene Names       | Smt3c; Smt3h3; Ubl1; SUMO-1; Smt3C                            |
| UniProt Entry Name               | SUMO1_MOUSE                                                   |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.