

## Product datasheet for **AM50183PU-S**

### Sumo 1 (SUMO1) Mouse Monoclonal Antibody [Clone ID: SPM571]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	SPM571
Applications:	FC, IF, IHC, IP, WB
Recommended Dilution:	<b>ELISA:</b> Use BSA free Antibody for coating. <b>Flow Cytometry:</b> 0.5-1 µg/million cells. <b>Immunofluorescence:</b> 0.5-1 µg/ml. <b>Western Blotting:</b> 0.5-1 µg/ml. <b>Immunoprecipitation:</b> 0.5-1 µg/500 µg protein lysate. <b>Immunohistochemistry on Frozen and Formalin-Fixed Sections:</b> 0.5-1 µg/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes. <b>Positive Control:</b> Breast carcinoma.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant human SUMO1 protein.
Specificity:	This MAb is specific to SUMO-1 and shows no cross-reaction with either SUMO-2 or SUMO-3. <b>Cellular Localization:</b> Predominantly nuclear with some cytoplasmic.
Formulation:	10mM PBS State: Purified State: Liquid purified IgG fraction from Bioreactor Concentrate Stabilizer: 0.05% BSA Preservative: 0.05% Sodium Azide
Concentration:	lot specific
Purification:	Protein A/G Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C.



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**Stability:** Shelf life: one year from despatch.

**Predicted Protein Size:** 11.5 kDa (Monomer); 90 kDa (Heteromer)

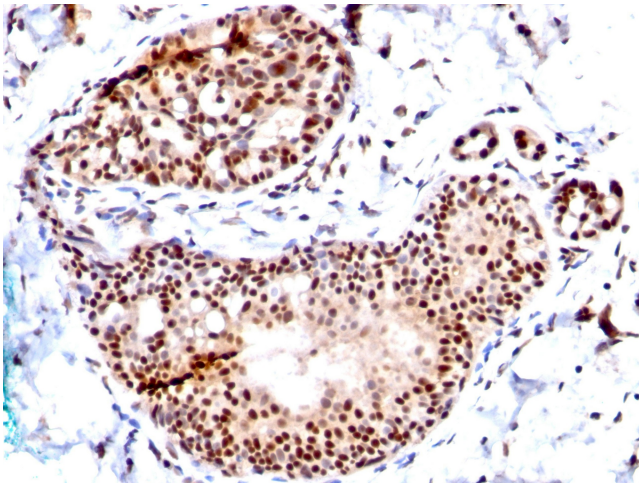
**Gene Name:** small ubiquitin-like modifier 1

**Database Link:** [Entrez Gene 7341 Human P63165](#)

**Background:** The small ubiquitin-related modifier (SUMO) proteins, which include SUMO-1, SUMO-2 and SUMO-3, belong to the ubiquitin-like protein family. Like ubiquitin, the SUMO proteins are synthesized as precursor proteins that undergo processing before conjugation to target proteins. Also, both utilize the E1, E2, and E3 cascade enzymes for conjugation. However, SUMO and ubiquitin differ with respect to targeting. Ubiquitination predominantly targets proteins for degradation, whereas sumoylation targets proteins to a variety of cellular processing, including nuclear transport, transcriptional regulation, apoptosis and protein stability. The unconjugated SUMO-1 protein localizes to the nuclear membrane.

**Synonyms:** SMT3C, SMT3H3, UBL1, GMP1, SMT3 homolog 3, Sentrin

### Product images:



Formalin-Fixed, Paraffin-Embedded Human tonsil stained with SUMO1 Antibody (Clone SPM571).