

## SUMO1

**Reactivity:** Human Mouse Rat

**Tested applications:** WB IHC ICC IF IP

**Recommended Dilution:** WB 1:500 - 1:2000 IHC 1:50 - 1:100 ICC 1:50 - 1:200 IF 1:50 - 1:200  
IP 1:50 - 1:100

**Calculated MW:** 12kDa

**Observed MW:** Refer to Figures

**Immunogen:**

Recombinant protein of human SUMO1

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Concentration:**

hjob

**Synonym:**

DAP-1; GMP1; OFC10; PIC1; SENP2; SMT3; SMT3C; SMT3H3; SUMO-1; UBL1;

**Catalog #:** A2130

**Antibody Type:**

Polyclonal Antibody

**Species:** Rabbit

**Gene ID:** 7341

**Isotype:** IgG

**Swiss Prot:** P63165

**Purity:** Affinity purification

For research use only.

**Background:**

Small ubiquitin-related modifier 1, 2 and 3 (SUMO-1, -2 and -3) are members of the ubiquitin-like protein family (1). The covalent attachment of the SUMO-1, -2 or -3 (SUMOylation) to target proteins is analogous to ubiquitination. This post-translational modification is a reversible, multi-step process that is initiated by cleaving a precursor protein to a mature protein. Mature SUMO-1, -2 or -3 is then linked to the activating enzyme E1, conjugated to E2 and in conjunction with E3, SUMO-1, -2 or -3 is ligated to the target protein (2). Ubiquitin and the individual SUMO family members are all targeted to different proteins with diverse biological functions. Ubiquitin predominantly regulates degradation of its target (1). In contrast, SUMO-1 is conjugated to RanGAP, PML, p53 and IB- to regulate nuclear trafficking, formation of subnuclear structures, regulation of transcriptional activity and protein stability (3-7). SUMO-2/-3 forms poly-(SUMO) chains, is conjugated to topoisomerase II and APP, regulates chromosomal segregation and cellular responses to environmental stress, and plays a role in the progression of Alzheimer disease (8-11).

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