

SUMO 1

Cat.No. 268 003; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

Data Sheet

Reconstitution/ Storage	50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add 50 µl H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: 1 : 1000 (AP staining) IP: not tested yet ICC: not recommended IHC: not recommended IHC-P/FFPE: not tested yet
Immunogen	Synthetic peptide corresponding to AA 57 to 70 from mouse SUMO1 (UniProt Id: P63166)
Reactivity	Reacts with: human (P63165), rat (Q5I0H3), mouse (P63166). Other species not tested yet.
Specificity	Specific for SUMO 1
matching control	268-0P

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

The **Small ubiquitin-related modifiers SUMOs** are ubiquitin-like proteins (UBLs) that can be conjugated to other proteins in a manner analogous to ubiquitin. Four SUMO paralogs, **SUMO 1-4** have been described in mammals. SUMO 1 is also referred to as GMP 1, Setrin 1, SMT3C and SMT3H3. Modification of proteins with SUMO 1 or other SUMOs requires a unique activating enzyme complex as well as a conjugation enzyme. This process plays an important role in a wide variety of processes such as transcriptional regulation, maintenance of genome integrity and subcellular localization. Sumoylated proteins include PML, Sp100, IκBα, RanGAP1 and RANBP2. The unmodified 70 kDa form of RanGAP1 is exclusively cytoplasmic, whereas the 90 kDa sumoylated form is associated with the cytoplasmic fibers of nuclear pore complexes (NPCs).

Selected General References

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