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. Albumin was added for stabilization. For reconstitution add 50 µl H₂O 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-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

Selected General References

Small ubiquitin-related modifier paralogs are indispensable but functionally redundant during early development of zebrafish.

The polycomb repressive complex 2 is a potential target of SUMO modifications.
Rising EM, Bioglio R, Chiozza S, Helin K, Pasini D

Small ubiquitin-related modifier (SUMO)-1, SUMO-2/3 and SUMOylation are involved with centromeric heterochromatin of chromosomes 9 and 1 and proteins of the synaptonemal complex during meiosis in men.
Brown PW, Huang K, Schlegel PN, Morris PL

SUMOylation of the polyglutamine repeat protein, ataxin-1, is dependent on a functional nuclear localization signal.
Riley BE, Zoghbi HY, Orr HT

Perturbation of SUMOlation enzyme Ubc9 by distinct domain within nucleoporin RanBP2/Nup358.
Saizh H, Pizzi MD, Wang J

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, IkBα, 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).