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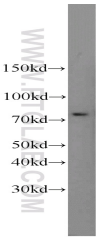
SUMO1 Polyclonal Antibody

Catalog number: 10329-1-AP
Size: 45 µg/150 µl
Source: Rabbit
Isotype: IgG
Synonyms:
SUMO1; DAP 1, GAP modifying protein 1, GMP1, OFC10, PIC1, SENP2, Sentrin, SMT3, SMT3 homolog 3, SMT3C, SMT3H3, SUMO 1, SUMO1, Ubiquitin like protein SMT3C, Ubiquitin like protein UBL1, UBL1



NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 10329-1-AP(SUMO1 antibody) at dilution of 1:600

Background

Ubiquitin is most famous for its function in targeting proteins for degradation by the 26S proteasome, ubiquitin needs to be attached to a substrate in chains (polyubiquitylation) before being recognized by proteasome. Similarly, SUMO (small ubiquitin-related modifier) can be linked to substrates in chains (polysumoylation), SUMO modification has been implicated in many important cellular processes including the control of genome stability, signal transduction, targeting to and formation of nuclear compartments, cell cycle and meiosis. There are 4 confirmed SUMO isoforms in human, SUMO-1, SUMO-2, SUMO-3 and SUMO-4. SUMO-2 and SUMO-3 are nearly identical but are distinct from SUMO-1. SUMO2/3 conjugation was recently widely involved in neuroprotective activities. A substitution (M55V) of SUMO4 was strongly associated with the pathogenesis of type 1 diabetes (T1D) involving NF kappa B related mechanisms.This antibody can detect endogenous levels of SUMOylated proteins (e.g. SUMO-1-RanGAP at 80-90 kD).

Applications

Tested applications:	**ELISA, WB**
Species specificity:	**Human,Mouse,Rat; other species not tested.**
Caculated SUMO1 MW:	**12kd**
Observed SUMO1 MW:	**10-12 kDa,80-90 kDa**
Positive WB detected in	**NIH/3T3 cells**
Recommended dilution:	**WB: 1:300 - 1:1200**

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	**Ag0414**
GenBank accession number:	**BC006462**
Gene ID (NCBI):	**7341**
Full name:	**SMT3 suppressor of mif two 3 homolog 1 (S. cerevisiae)**

Product information

Purification method:	**Antigen affinity purification**
Storage:	**PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.**