For Research Use Only

SUMO1 Polyclonal antibody

Catalog Number:10329-1-AP

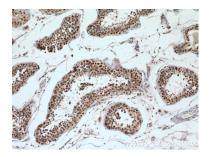
15 Publications



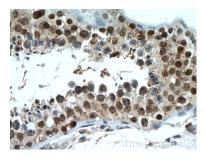
Catalog Number: GenBank Accession Number: **Purification Method: Basic Information** 10329-1-AP BC 006462 Antigen affinity purification GenelD (NCBI): Recommended Dilutions: Size: 400 µg/ml 7341 WB 1:1000-1:4000 IP 0.5-4.0 ug for 1.0-3.0 mg of total UNIPROT ID: Source: protein lysate Rabbit P63165 IHC 1:50-1:500 Full Name: Isotype: IF 1:50-1:500 lgG SMT3 suppressor of mif two 3 homolog 1 (S. cerevisiae) Immunogen Catalog Number: AG0414 Calculated MW: 12 kDa **Observed MW:** 10-12 kDa, 80-90 kDa **Applications Tested Applications:** Positive Controls: WB, IP, IF/ICC, FC, IHC, ELISA WB : A549 cells, HeLa cells, NIH/3T3 cells, PC-12 cells **Cited Applications:** IP : HeLa cells, WB, IP, IF, CoIP IHC : human testis tissue, Species Specificity: IF : A549 cells, human, mouse, rat **Cited Species:** human, rat, mouse Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 **Background Information** 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). Notable Publications Author Pubmed ID Journal Application Shuai Huang 31660066 Theranostics WB J Mol Cell Biol WB Xiaoli Xu 30184152 WB 1 Biol Chem Hongrui Wang 36244448 Storage Storage: Store at -20°C. Stable for one year after shipment. Storage Buffer PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Aliquoting is unnecessary for -20°C storage

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

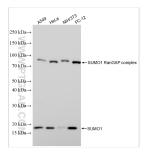
Selected Validation Data



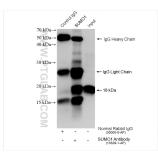
Immunohistochemical analysis of paraffinembedded human testis tissue slide using 10329-1-AP (SUMO 1 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



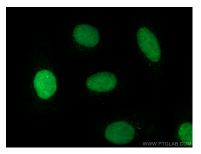
Immunohistochemical analysis of paraffinembedded human testis tissue slide using 10329-1-AP (SUMO 1 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



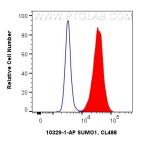
Various lysates were subjected to SDS PAGE followed by western blot with 10329-1-AP (SUMO1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP result of anti-SUMO1 (IP:10329-1-AP, 4ug; Detection:10329-1-AP 1:1000) with HeLa cells lysate 1200 ug.



Immunofluorescent analysis of (4% PFA) fixed A549 cells using SUMO1 antibody (10329-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10^6 A549 cells were intracellularly stained with 0.4 ug Anti-Human SUMO 1 (10329-1-AP) and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit 1gG(H+L) at dilution 1:1000 (red), or 0.4 ug Rabbit 1gG control Rabbit PolyAb (30000-0-AP, Clone:) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.