

SUMO-1 Rabbit pAb

CatalogNo: YT4470 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 12kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:100-1:300

IF 1:200-1:1000

ELISA 1:20000

Not yet tested in other applications.

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human Sumo1. AA range:1-50

Specificity SUMO-1 Polyclonal Antibody detects endogenous levels of SUMO-1 protein.

| Target Information

Gene name SUMO1

Protein Name Small ubiquitin-related modifier 1

Organism	Gene ID	UniProt ID
Human	7341 ;	P63165 ;
Mouse	22218 ;	P63166 ;
Rat	301442 ;	Q5I0H3 ;

Cellular Localization Nucleus membrane . Nucleus speckle . Cytoplasm . Nucleus, PML body . Cell membrane . Nucleus . Recruited by BCL11A into the nuclear body (By similarity). In the presence of ZFHX3, sequestered to nuclear body (NB)-like dots in the nucleus some of which overlap or closely associate with PML body (PubMed:24651376). .

Tissue specificity Brain,Colon adenocarcinoma,Epithelium,Placenta,

Function Caution:The sequence shown here is derived from an Ensembl automatic analysis pipeline and should be considered as preliminary data.,Function:Ubiquitin-like protein which can be covalently attached to target lysines as a monomer. Does not seem to be involved in protein degradation and may function as an antagonist of ubiquitin in the degradation process. Plays a role in a number of cellular processes such as nuclear transport, DNA replication and repair, mitosis and signal transduction. Involved in targeting RANGAP1 to the nuclear pore complex protein RANBP2. Covalent attachment to its substrates requires prior activation by the E1 complex SAE1-SAE2 and linkage to the E2 enzyme UBE2I, and can be promoted by an E3 ligase such as PIAS1-4, RANBP2 or CBX4.,online information:SUMO protein entry,PTM:Cleavage of precursor form by SENP1 or SENP2 is necessary for function.,similarity:Belongs to the ubiquitin family. SUMO subfamily.,similarity:Contains 1 ubiquitin-like domain.,subunit:Interacts with SAE2, UBE2I, RANBP2, PIAS1 and PIAS2. Interacts with PARK2. Covalently attached to a number of proteins such as PML, RANGAP1, HIPK2, SP100, p53, p73-alpha, MDM2, JUN, DNMT3B and TDG. Also interacts with HIF1A, HIPK2, HIPK3, CHD3, EXOSC9, RAD51 and RAD52.,

| Validation Data

| Contact information

Orders: order.cn@immunoway.com
Support: support.cn@immunoway.com
Telephone: 400-8787-807(China)
Website: <http://www.immunoway.com.cn>
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



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