Product Datasheet

SUMO2 antibody

Catalog No: #38405

Package Size: #38405-1 50ul #38405-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

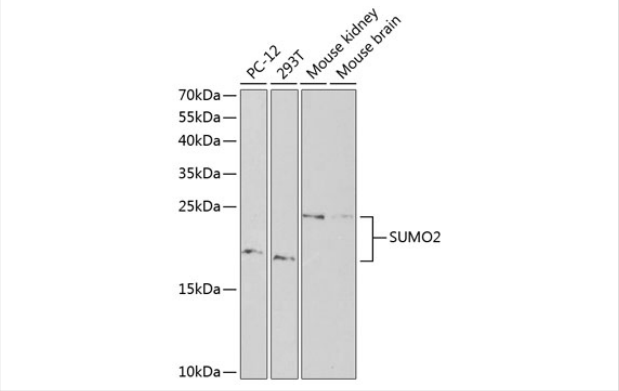
Description

Product Name	SUMO2 antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB,IHC
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous level of total SUMO2 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human SUMO2 .
Target Name	SUMO2
Other Names	SUMO2;HSMT3;MGC117191;SMT3B;SMT3H2;SUMO3;Smt3A;HSMT3;SMT3 homolog 2;SUMO-3;Sentrin-2; Ubiquitin-like protein SMT3A;
Accession No.	Swiss-Prot#: P61956NCBI Gene ID: 6613
Uniprot	P61956
GeneID	6613;
SDS-PAGE MW	18kd
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

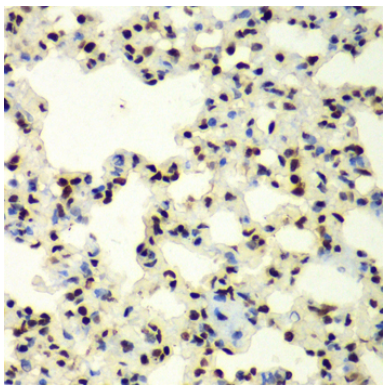
Application Details

WB□1:500 - 1:2000IHC□1:50 - 1:200

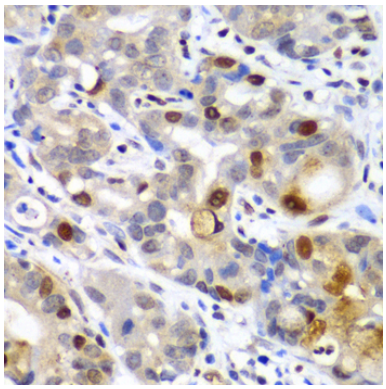
Images



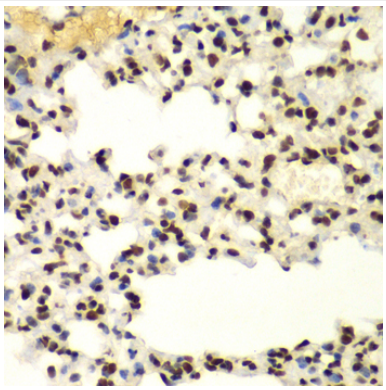
Western blot analysis of extracts of various cell lines, using SUMO2 at 1:1000 dilution.



Immunohistochemistry of paraffin-embedded rat lung using SUMO2 at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded human gastric cancer using SUMO2 at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded mouse lung using SUMO2 at dilution of 1:100 (40x lens).

Background

Small ubiquitin-related modifier 1, 2 and 3 (SUMO-1, -2 and -3) are members of the ubiquitin-like protein family (1). The covalent attachment of the SUMO-1, -2 or -3 (SUMOylation) to target proteins is analogous to ubiquitination. This post-translational modification is a reversible, multi-step process that is initiated by cleaving a precursor protein to a mature protein. Mature SUMO-1, -2 or -3 is then linked to the activating enzyme E1, conjugated to E2 and in conjunction with E3, SUMO-1, -2 or -3 is ligated to the target protein (2). Ubiquitin and the individual SUMO family members are all targeted to different proteins with diverse biological functions. Ubiquitin predominantly regulates degradation of its target (1). In contrast, SUMO-1 is conjugated to RanGAP, PML, p53 and IκB-α to regulate nuclear trafficking, formation of subnuclear structures, regulation of transcriptional activity and protein stability (3-7). SUMO-2/-3 forms poly-(SUMO) chains, is conjugated to topoisomerase II and APP, regulates chromosomal segregation and cellular responses to environmental stress, and plays a role in the progression of Alzheimer disease (8-11).

Note: This product is for in vitro research use only