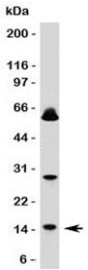
SUMO1 Antibody [clone S1MT-2] (V7067)

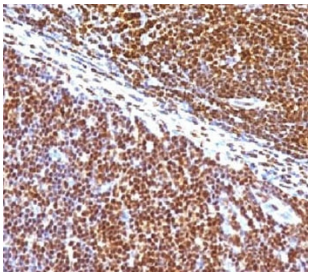
Catalog No.	Formulation	Size
V7067-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7067-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7067SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7067IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

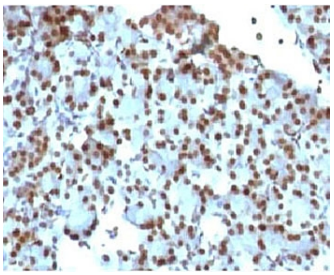
Species Reactivity	Human, Rat
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	S1MT-2
Purity	Protein G affinity chromatography
Buffer	1X PBS, pH 7.4
Gene ID	7341
Localization	Predominantly nuclear with some cytoplasmic staining
Applications	Immunofluorescence : 1-2ug/ml Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT Prediluted IHC Only Format : incubate for 30 min at RT (1)
Limitations	This SUMO1 antibody is available for research use only.



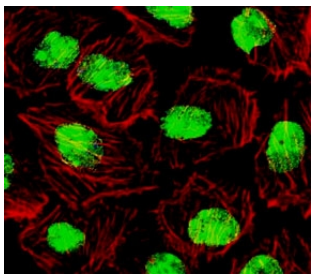
Western blot testing of SUMO1 antibody and human HeLa lysate (clone S1MT-2).



IHC staining of human tonsil with SUMO1 antibody (clone S1MT-2). Required HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min.



IHC staining of rat pancreas with SUMO1 antibody (clone S1MT-2). Required HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min.



Immunofluorescent testing of PFA-fixed human HepG2 cells with SUMO1 antibody (green, clone S1MT-2) and Phalloidin (red).

Description

The small ubiquitin-related modifier (SUMO) proteins, which include SUMO1, 2 and 3, belong to the ubiquitin-like protein family. Like ubiquitin, the SUMO proteins are synthesized as precursor proteins that undergo processing before conjugation to target proteins. However, SUMO and ubiquitin differ with respect to targeting. Ubiquitination predominantly targets proteins for degradation, whereas sumoylation targets proteins to a variety of cellular processing, including nuclear transport, transcriptional regulation, apoptosis and protein stability.

Application Notes

Titering of the SUMO1 antibody may be required for optimal performance.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Recombinant human protein was used as the immunogen for this SUMO1 antibody.

Storage

Store the SUMO1 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).