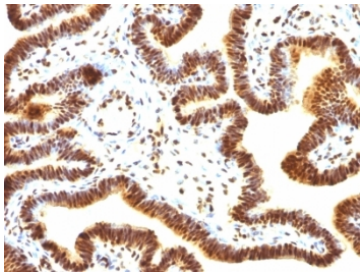
SUMO-1 Antibody [clone SUMO1/1188] (V2919)

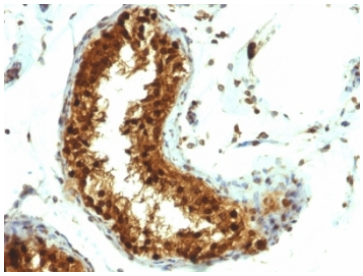
Catalog No.	Formulation	Size
V2919-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2919-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2919SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2919IHC-7ML	Prediluted 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

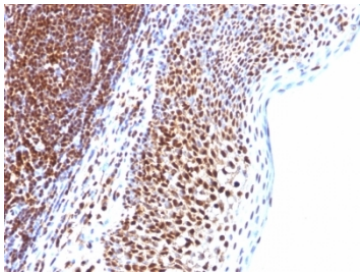
Availability	1-3 business days
Species Reactivity	Human, Rat
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	SUMO1/1188
Purity	Protein G affinity chromatography
UniProt	P63165
Localization	Predominantly nuclear with some cytoplasmic
Applications	Flow Cytometry : 0.5-1ug/10^6 cells Immunofluorescence : 0.5-1ug/ml Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml for 30 min at RT
Limitations	This SUMO-1 antibody is available for research use only.



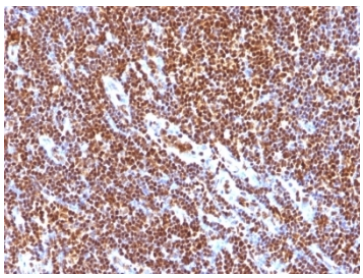
IHC: Formalin-fixed, paraffin-embedded human ovarian carcinoma stained with SUMO-1 antibody (SUMO1/1188)



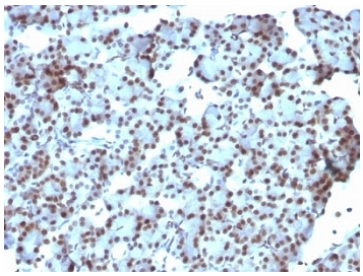
IHC: Formalin-fixed, paraffin-embedded human testicular carcinoma stained with SUMO-1 antibody (SUMO1/1188)



IHC: Formalin-fixed, paraffin-embedded human tonsil stained with SUMO-1 antibody (SUMO1/1188)



IHC: Formalin-fixed, paraffin-embedded human tonsil stained with SUMO-1 antibody (SUMO1/1188)



IHC: Formalin-fixed, paraffin-embedded rat pancreas stained with SUMO-1 antibody (SUMO1/1188)

Description

This mAb is specific to SUMO-1 and shows no cross-reaction with either SUMO-2 or SUMO-3. The small ubiquitin-related modifier (SUMO) proteins, which include SUMO-1, SUMO-2 and SUMO-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. Also, both utilize the E1, E2, and E3 cascade enzymes for conjugation. 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. The unconjugated SUMO-1 protein localizes to the nuclear membrane.

Application Notes

Optimal dilution of the SUMO-1 antibody should be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min.
2. 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 the SUMO-1 antibody.

Storage

Store the SUMO-1 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).