



# **SUMO1 Polyclonal Antibody**

**Catalog No: tcba7278** 

IHC 1:50 - 1:100

IF 1:50 - 1:200

4	Available Sizes
Size:	50ul
Size:	100ul
Size:	200ul
	Specifications
<b>Appli</b> WB,IH	<b>cation:</b> IC,IF
	arch Area: er,Autophagy pathway,Cardiovascular,Cell Biology,Metabolism,NF-кВ pathway,RNA Binding Protein(RBP),
_	ies Reactivity: n,Mouse,Rat
<b>Host</b> Rabbi	Species: t
<b>Isoty</b> IgG	pe:
<b>Form</b> Liquid	
	nge Buffer: r: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
	mmended Dilution: 500 - 1:2000



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### **Storage Instruction:**

Store at -20°C. Avoid freeze / thaw cycles.

#### **Alternative Names:**

DAP1;GMP1;OFC10;PIC1;SENP2;SMT3;SMT3C;SMT3H3;UBL1

#### **SwissProt:**

P63165

#### **Gene ID:**

7341 (human);

## **Calculated Molecular Weight:**

8kDa/11kDa

#### **Purification:**

Affinity purification

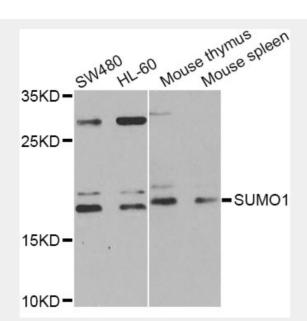
#### **Cellular Location:**

Cell membrane, Cytoplasm, Nucleus, Nucleus membrane, Nucleus speckle, PML body,

# **Product Description**

This gene encodes a protein that is a member of the SUMO (small ubiquitin-like modifier) protein family. It functions in a manner similar to ubiquitin in that it is bound to target proteins as part of a post-translational modification system. However, unlike ubiquitin which targets proteins for degradation, this protein is involved in a variety of cellular processes, such as nuclear transport, transcriptional regulation, apoptosis, and protein stability. It is not active until the last four amino acids of the carboxy-terminus have been cleaved off. Several pseudogenes have been reported for this gene. Alternate transcriptional splice variants encoding different isoforms have been characterized.





Western blot analysis of extracts of various cell lines, using SUMO1 Antibody at 1:1000 dilution.

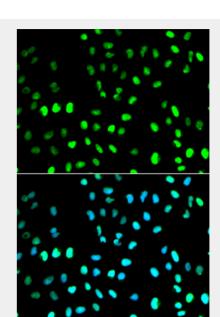
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.

Lysates/proteins: 25ug per lane.

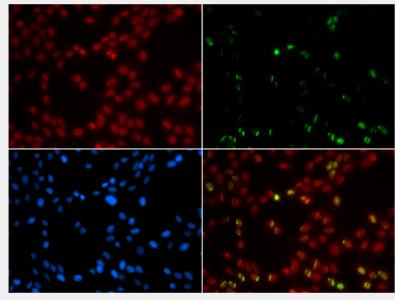
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit.

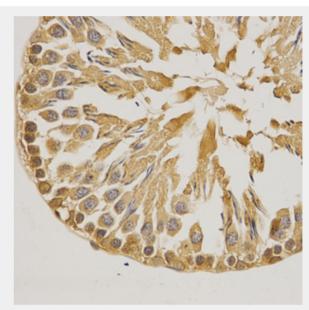
Exposure time: 90s.



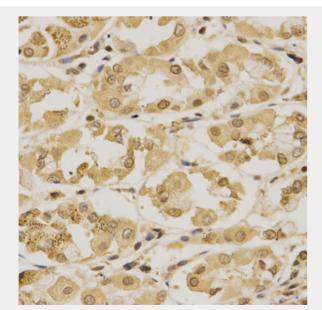
Immunofluorescence analysis of MCF-7 cells using SUMO1 antibody. Blue: DAPI for nuclear staining.



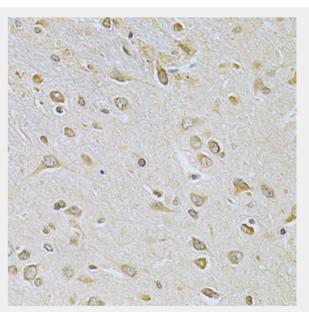
Immunofluorescence analysis of GFP-RNF168 transgenic U2OS cells using SUMO1 antibody. Green GFP-RNF168 fusion protein expression for DNA damage marker. Blue: DAPI for nuclear staining. RNF168 (GFP) can be used to mark cells damaged by UV-A laser for they always gather around DNA damage region.



Immunohistochemistry of paraffin-embedded rat testis using SUMO1 Antibody at dilution of 1:200 (40x lens).

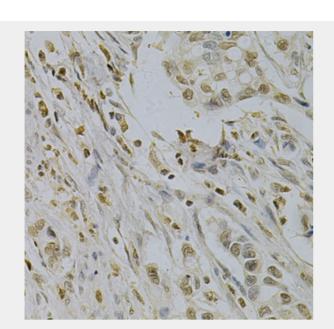


Immunohistochemistry of paraffin-embedded human stomach using SUMO1 Antibody at dilution of 1:200 (40x lens).

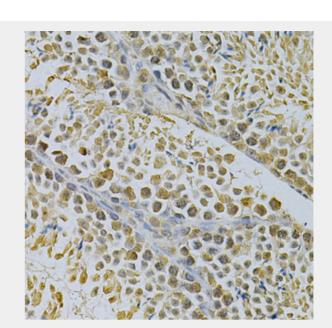


Immunohistochemistry of paraffin-embedded rat brain using SUMO1 Antibody at dilution of 1:200 (40x lens).

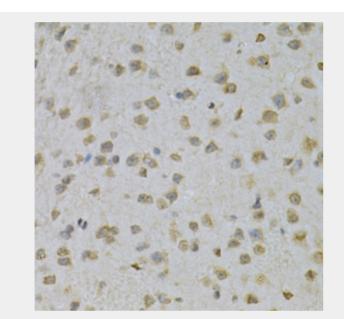




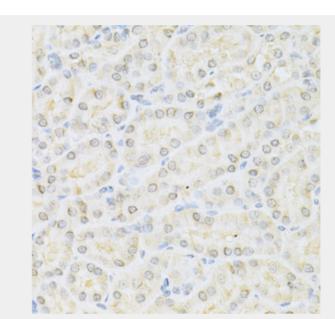
Immunohistochemistry of paraffin-embedded human gastric cancer using SUMO1 Antibody at dilution of 1:200 (40x lens).



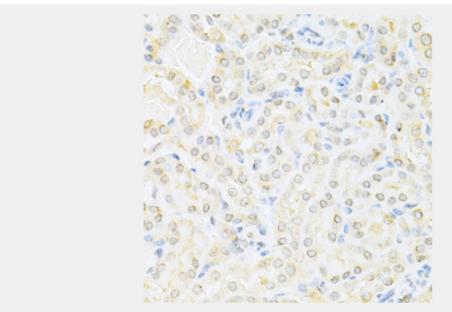
Immunohistochemistry of paraffin-embedded mouse testis using SUMO1 Antibody at dilution of 1:200 (40x lens).



Immunohistochemistry of paraffin-embedded mouse brain using SUMO1 Antibody at dilution of 1:200 (40x lens).



Immunohistochemistry of paraffin-embedded mouse kidney using SUMO1 Antibody at dilution of 1:200 (40x lens).



Immunohistochemistry of paraffin-embedded mouse kidney using SUMO1 Antibody at dilution of 1:200 (40x lens).

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