



## Anti- SUMO1 antibody

### BACKGROUND

SUMO is Ubiquitin-like protein that can be covalently attached to proteins as a monomer or a lysine-linked polymer. This post-translational modification on lysine residues of proteins plays a crucial role in a number of cellular processes such as nuclear transport, DNA replication and repair, mitosis and signal transduction. SUMO1 involves for instance in targeting RANGAP1 to the nuclear pore complex protein RANBP2.

<b>Product type</b>	Primary antibody
<b>Immunogen</b>	Recombinant GST-fused human SUMO1 (full length).
<b>Host</b>	Rat
<b>Clone number</b>	4D12
<b>Isotype</b>	IgG2a, $\kappa$
<b>Source</b>	Culture supernatant
<b>Purification</b>	Ion-exchange chromatography
<b>Form</b>	Liquid
<b>Presentation</b>	Purified monoclonal antibody in PBS, 50% Glycerol, 0.05%w/v ProClin300
<b>Concentration</b>	1 mg/mL
<b>Volume</b>	100 $\mu$ L
<b>Label</b>	Unlabeled
<b>Specificity</b>	SUMO1
<b>Cross reactivity</b>	Human, Monkey, Mouse, Rat      Other species have not been tested.
<b>Storage</b>	Store below -20°C (below -70°C for prolonged storage) Aliquot to avoid cycles of freeze/thaw.
<b>Other</b>	-

### Application notes

#### Recommended use

WB, ICC, IHC    Not tested for other applications.

#### Recommended dilutions

Western blotting, 1/1000 to 1/5000

Immunocytochemistry, 1/100 to 1/500

Immunohistochemistry, 1/100 to 1/500

Optimal dilutions/concentrations should be determined by the end user.

### References

1) Saitoh et al.,(2006). Exp Cell Res., 312, 1418-1430.

\* This antibody is used in ref.1.

ANTIBODY CHARACTERIZATION

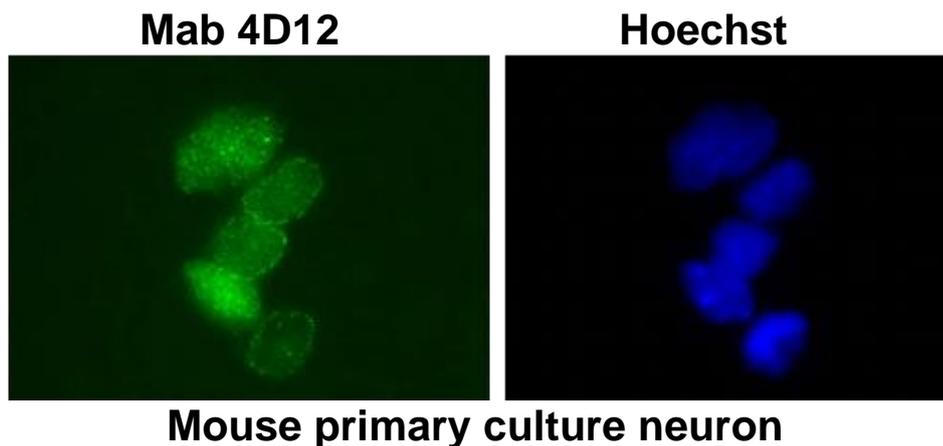


Fig.1 Immunocytochemistry/ Immunofluorescence – SUMO1 antibody (4D12),  
Mouse primary culture neuron

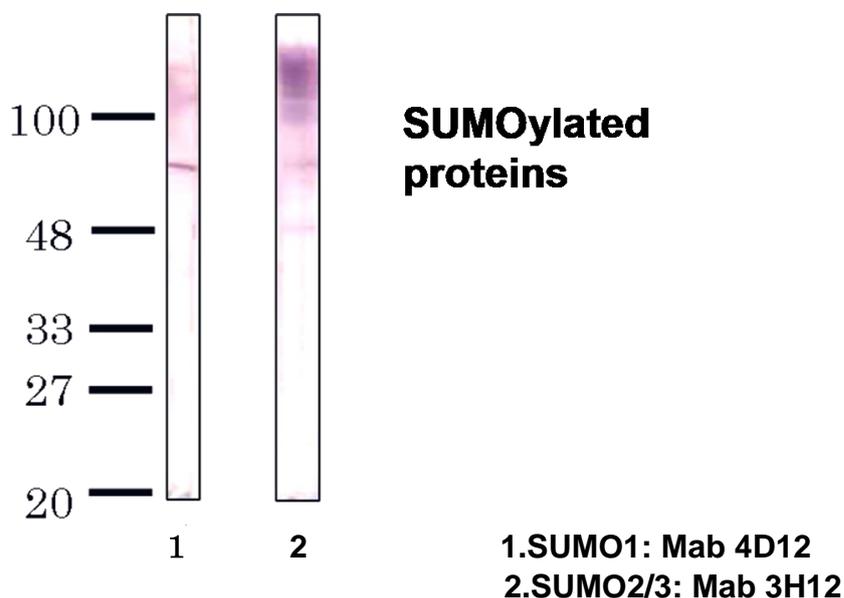


Fig.2 Western blot - SUMO1 antibody (4D12) and SUMO2/3 antibody (3H12),  
Hela cell total extracts

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