

Anti-SUMO1 antibody

Clone	Cross reactivity	Application notes	Host	Isotype	Storage
4D12	Hu, Mk, Ms, Rat	WB, ICC	Rat	IgG2a, κ	-20°C

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.

Immunogen Recombinant GST-fused human SUMO1 (full length)

Host Rat
Isotype IgG2a, κ
Cross reactivity Human, Monkey, Mouse, Rat
Other species have not been tested.
Specificity SUMO1
Application notes Recommended use
WB, ICC Not tested for other applications.
Recommended dilutions
Western blotting, 1/1000 to 1/5000
Immunocytochemistry, 1/100 to 1/500
Optional dilutions/concentrations should be determined by the end user.

Source Culture Supernatant
Purification Ion-exchange chromatography
Form Liquid
Presentation Purified monoclonal antibody in PBS,
50% Glycerol, 0.05%w/v ProClin300
Concentration 1 mg/mL
Volume 100 μ L
Storage Store below -20°C
(below -70°C for prolonged storage)
Aliquot to avoid cycles of freeze/thaw.

References 1) Saitoh et al.,(2006). *Exp Cell Res.* , 312, 1418-1430.
2) Uchimura et al., *J Biol Chem.* 2006, 28:23180-23190.
This antibody is used in ref.1. and 2.

Data

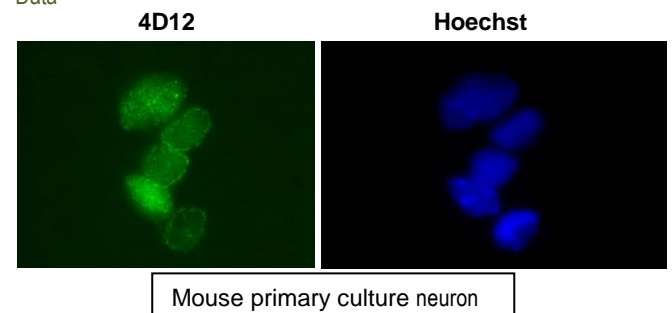


Fig.1 Immunocytochemistry/Immunofluorescence
- SUMO1 antibody (4D12)
Mouse primary culture neuron

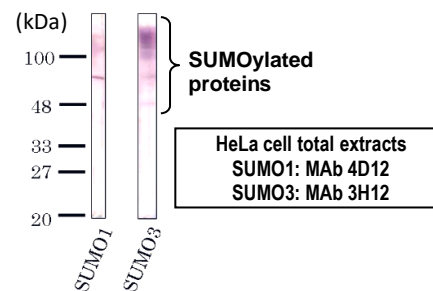


Fig.2 Western blot
- SUMO1 antibody (4D12) and SUMO3 antibody (3H12)
HeLa cell total extracts