
MATERIAL DATA SHEET

SUMO Polyclonal Ab**Cat. # A-712**

The ubiquitin-like SUMO proteins are conjugated to a variety of proteins in the presence of UbcH9 and the Aos1/Uba2 (yeast) or SAE1/SAE2 (human) activating enzyme. SUMOylation can occur without the requirement of a specific E3 ligase activity, where SUMO is transferred directly from UbcH9 to specific substrates. SUMOylated substrates are primarily localized to the nucleus (RanGAP-1, RANBP2, PML, p53, Sp100, HIPK2) but there are also cytosolic substrates (I κ B α , GLUT1, GLUT4). SUMO modification has been implicated in functions such as nuclear transport, chromosome segregation and transcriptional regulation.

Product Information

Quantity:	200 μ l
Source:	Protein A affinity purified rabbit polyclonal antibody.
Antigen:	Full-length, highly purified human SUMO-1 protein.
Stock:	PBS pH 7.4

Use & Storage

Specificity:	Recommended dilution range for Western blot analysis is 1:500 to 1:1500. Antibody cross-reacts with SUMO1, SUMO2 and SUMO3 proteins, but not ubiquitin, Nedd8 or ISG15 proteins.
Storage:	Store unopened vial at -80 $^{\circ}$ C. Avoid repeated freeze-thaw cycles. Aliquot antibody in small volumes prior to freezing.

Literature

References:	Desterro J.M., <i>et al.</i> (1997) <u>FEBS. Lett.</u> 417 :297-300 Okama T., <i>et al.</i> (1999) <u>Biochem. Biophys. Res. Comm.</u> 254 :693-698 Seeler J-S. and Dejean A. (2003) <u>Nat. Rev.</u> 4 :690-699 Su H-L., <i>et al.</i> (2002) <u>Gene</u> 296 :65-73 Tatham M.H., <i>et al.</i> (2001) <u>J. Biol. Chem.</u> 276 :35368-35374 Yeh E.T.H., <i>et al.</i> (2000) <u>Gene</u> 248 :1-14
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