

Human/Mouse SUMO3 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF2959

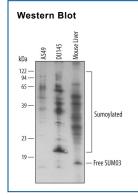
DESCRIPTION	
Species Reactivity	Human/Mouse
Specificity	Detects endogenous human and mouse proteins modified with SUMO3 in Western blots. In Western blots, less than 10% cross-reactivity with recombinant human SUMO2 and SUMO4 is observed, and less than 1% cross-reactivity with SUMO1 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	E. coli-derived recombinant human SUMO3 Met1-Phe103 Accession # P55854
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.5 μg/mL	See Below

DATA



Detection of Human SUMO3 by Western Blot. Western blot shows lysates of A549 human lung carcinoma cell line, DU145 human prostate carcinoma cell line and mouse liver. PVDF membrane was probed with 0.5 µg/mL of Goat Anti-Human/Mouse SUMO3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2959) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for SUMO3 at approximately 11 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 4.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2	ma/ml in st	erile PRS

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Small Ubiquitin-like Modifiers (SUMOs) are a family of small, related proteins that can be enzymatically attached to a target protein by a post-translational modification process termed sumoylation. Unlike ubiquitination, which targets proteins for degradation, sumoylation participates in a number of cellular processes, such as nuclear transport, transcriptional regulation, apoptosis, and protein stability. All SUMO proteins share the conserved ubiquitin domain and the C-terminal diglycine cleavage/attachment site. Human SUMO3, also known as SMT3A, is synthesized as a 103 amino acid (aa), 11.5 kDa propeptide that contains an 11 aa C-terminal prosegment. Following prosegment cleavage, the C-terminal glycine is enzymatically attached to a lysine on a target protein. Human SUMO3 shares 83% sequence identity with SUMO3 from mouse. SUMO3 also has very high sequence homology to SUMO2 and SUMO4, 87% and 75%, respectively. SUMO3 shares only 47% sequence identity to SUMO1.

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