



Qty: 100µg/400 µL

Rabbit anti-SUMO-3

Catalog No. 40-1900

Lot No.

Rabbit anti-SUMO-3

FORM

This polyclonal antibody is supplied as a 400 µL aliquot at a concentration of 0.25 mg/mL in phosphate buffered saline (pH 7.4) containing 0.1% sodium azide. This antibody is epitope-affinity purified from rabbit antiserum.

PAD: ZMD.438

IMMUNOGEN

Synthetic peptide derived from the C-terminal region of the human SUMO-3 protein

SPECIFICITY

This antibody reacts with the human SUMO-3 protein also known as SMT3A, SMT3h1, or Sentrin-3. On Western blots, it identifies a single band at ~18 kDa. Several bands of unknown origin may be observed at ~25 kDa, ~35 kDa, and above.

REACTIVITY

Reactivity has been confirmed with SK-OV3 human ovary adenocarcinoma or Jurkat human T lymphocyte Leukemia cell lysates.

Sample	Western Blotting	Immunoprecipitation
Human	+++	0*

(Excellent +++, Good++, Poor +, No reactivity 0, Not applicable N/A, Not Determined ND)

* Did not work under the condition tested

USAGE

Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

Immunoprecipitation: N/A
Western Blotting: 1-3 µg/mL

STORAGE

Store at 2-8°C for up to one month. Store at -20°C for long-term storage. Avoid repeated freezing and thawing.

(cont'd)

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BACKGROUND

Small ubiquitin-related modifier proteins (SUMO-1, SUMO-2 and SUMO-3) are members of the ubiquitin-like protein family.¹ SUMO-3 regulates Amyloid β generation and may be critical in the onset or progression of Alzheimer's disease.² SUMO-2/3 forms poly-(SUMO) chains, which is conjugated to topoisomerase II and APP and regulates chromosomal segregation, progression of Alzheimer's disease and cellular responses to environmental stress.^{2,3}

SUMO-1, 2, and 3 proteins localize to the nuclear membrane, nuclear bodies, and cytoplasm, respectively.⁴

REFERENCES

1. Kim KI, et al. *J Cell Physiol* 191: 257-268, 2002.
2. Li Y, et al. *Proc Natl Acad Sci U S A* 100: 259-264, 2003.
3. Azuma Y, et al. *J Cell Biol* 163: 477-487, 2003.
4. Spengler ML, et al. *J Virol* 76: 2990-2996, 2002.

RELATED PRODUCTS

Product	Conjugate	Cat. No.
Protein A	Sepharose [®] 4B	10-1041
rec-Protein G	Sepharose [®] 4B	10-1241

Conjugate	ZyMAX[™] Goat x Rabbit IgG (H+L)	ZyMAX[™] Goat x Mouse IgG (H+L)
Purified	81-6100	81-6500
FITC	81-6111	81-6511
TRITC	81-6114	81-6514
Cy [™] 3	81-6115	81-6515
Cy [™] 5	81-6116	81-6516
HRP	81-6120	81-6520
AP	81-6122	81-6522
Biotin	81-6140	81-6540

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