

Qty: 50µg/200 µL

Rabbit anti-SENP1

Catalog No. 38-3350

Lot No.

Rabbit anti-SENP1

FORM

This polyclonal antibody is supplied as a 200 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.366

IMMUNOGEN

Synthetic peptide derived from the mid region of the human SENP1 protein.

SPECIFICITY

This antibody reacts with the human ~73 kDa SENP1 on Western blots.

REACTIVITY

Reactivity has been confirmed with FLAG-HA-tagged-SENP1 transfected Hep2 cell lysates and human HL-60 acute myeloid leukemia cell lysates.

Sample	Western Blotting	Immunoprecipitation (Native)
Human	+++	++

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

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: 7 µg/mL

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)

BACKGROUND

The mammalian SUMO-specific protease (SEN1) is active against sentrin, but not ubiquitin or NEDD8-modified proteins *in vivo*.¹ SEN1 provides a unique tool to study the role of sentrinization in the biological function of PML and in the pathogenesis of acute promyelocytic leukemia.¹ SEN1 localizes to the nucleus mainly in discrete subdomains, a subset of which co-localized with PML nuclear bodies (NBs).² Both The herpes simplex virus 1 (HSV-1) immediate early regulatory protein (ICP0) and SEN1 protease promote the loss of SUMO-1 from the nucleus.² SEN1 recruitment may be an important (though not sufficient) role in the modulation of SUMO-1 and NBs by ICP0.² SEN1 itself may be a target for SUMO-1 modification occurring at a nonconsensus site, and SEN1 localization is influenced by expression and localization of SUMO-1-conjugated target proteins within the cell.³

REFERENCES

1. Gong L, et al. *J Biol Chem* 275:14102-14106, 2000.
2. Bailey D, et al. *J Gen Virol* 83:2951-2964, 2002.
3. Bailey D, et al. *J Biol Chem* 279:692-703, 2004.

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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