
MATERIAL DATA SHEET

Anti-SUMO activating E1 enzyme (SAE1 subunit)**Cat. # A-315 (50 µg)**

Conjugation of the ubiquitin-like modifier SUMO requires the activities of the heterodimeric E1 (SAE1/SAE2) and the UbcH9 E2 enzyme. The dimeric activating enzyme utilizes ATP to adenylate the C-terminal glycine residue of SUMO proteins (SUMO-1, SUMO-2 and SUMO-3), forming a high-energy thiolester bond with the cysteine residue of SAE2 and the release of AMP and PPi. The second step is the trans-esterification reaction whereby SUMO-1 is transferred to Cys⁹³ of UbcH9.

Product Information

Immunogen:	Human recombinant SAE1 subunit (39 kDa).
Host/Isotype:	Sheep Polyclonal
Reactivity:	Antibody detects human SAE1 protein.
Stock:	50 mM Tris-Cl pH 7.5, 100 mM NaCl, 1% BSA, 10% glycerol.

Use & Storage

Specificity:	Recommended dilution for Western blot is 1:3000. Also functional for ICC.
Storage:	Store vial at -80°C. Avoid repeated freeze-thaw cycles.

Literature

References:	Azume Y., <i>et al.</i> (2001) <i>FASEB. J.</i> 15 :1825-1827 Desterro JMP., <i>et al.</i> (1999) <i>J. Biol. Chem.</i> 274 :10618-10624 Okuma T., <i>et al.</i> (1999) <i>Biochem Biophys Res Commun.</i> 254 :693698 Tatham M.H., <i>et al.</i> (2001) <i>J. Biol. Chem.</i> 276 :35368-35374
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