

6xHis-SAE1/SAE2

Cat. # B1300, B1301

Also Known as: SAE1 (AOS1; SUA1; UBLE1A; HSPC140; FLJ3091); SAE2 (RBBP8; RIM; CTIP; JWDS; SCKL2)

NCBI Reference: NM_005500 (SAE1); NM_002894 (SAE2)

MW (no tag): SAE1 (33 kDa), SAE2 (71.2 kDa)

Species: Human

Source: Bacterial recombinant

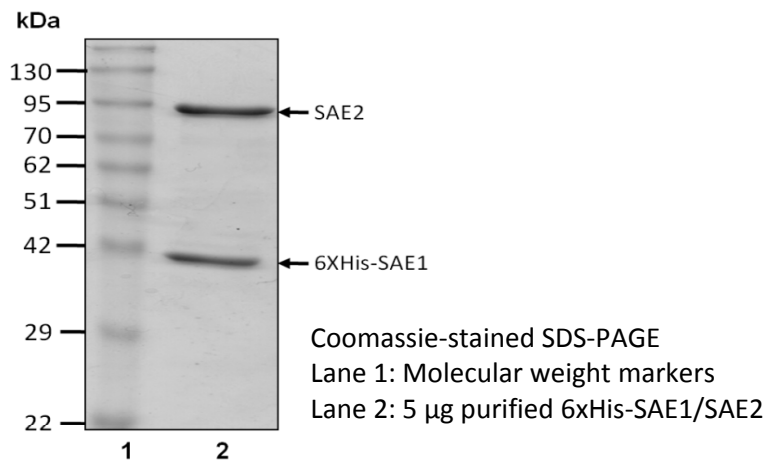
Tag: 6xHis

Stock Buffer: 20 mM Tris, 150 mM NaCl, 2 mM β ME, 10% Glycerol

Concentration: See tube label

Quality Assurance: ~95% by SDS-PAGE

Image



Description: SAE1/SAE2 is the heterodimeric E1 enzyme that conjugates SUMO to protein substrates. The conjugation process is very similar to that of protein ubiquitination. SUMO is conjugated onto the catalytic cysteine residue of SAE2 by formation of a thioester bond in an ATP-dependent reaction. The activated SUMO is then passed on to an E2 (Ubc9) to be finally attached to a substrate.

Storage: Store at -80°C; avoid multiple freeze-thaw cycles

Note: N/A

Literature:

1. Desterro JM, *et al.* (1999) J Biol Chem 274(15), 10618 – 10624.
2. Melchior F (2000) Annu Rev Cell Dev Biol 16, 591 – 626.
3. Schulman BA, *et al.* (2009) Nat Rev Mol Biol 10(5), 319 – 331.