

SAE1 Antibody (clone 1G8)
Mouse Monoclonal Antibody
Catalog # ALS15828**Specification**

SAE1 Antibody (clone 1G8) - Product Information

Application	WB, IF, IHC
Primary Accession	Q9UBE0
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	38kDa KDa

SAE1 Antibody (clone 1G8) - Additional Information**Gene ID** 10055**Other Names**

SUMO-activating enzyme subunit 1, Ubiquitin-like 1-activating enzyme E1A, SUMO-activating enzyme subunit 1, N-terminally processed, SAE1, AOS1, SUA1, UBLE1A

Target/Specificity

Human SAE1

Reconstitution & Storage

Store at -20°C. Minimize freezing and thawing.

Precautions

SAE1 Antibody (clone 1G8) is for research use only and not for use in diagnostic or therapeutic procedures.

SAE1 Antibody (clone 1G8) - Protein Information**Name** SAE1**Synonyms** AOS1, SUA1, UBLE1A**Function**

The heterodimer acts as an E1 ligase for SUMO1, SUMO2, SUMO3, and probably SUMO4. It mediates ATP-dependent activation of SUMO proteins followed by formation of a thioester bond between a SUMO protein and a conserved active site cysteine residue on UBA2/SAE2.

Cellular Location

Nucleus.

Tissue Location

Expression level increases during S phase and drops in G2 phase (at protein level).

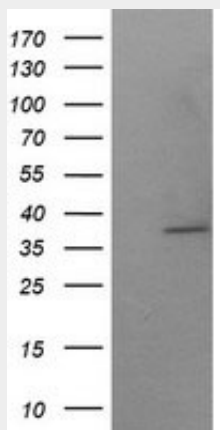
Volume
50 μ l

SAE1 Antibody (clone 1G8) - Protocols

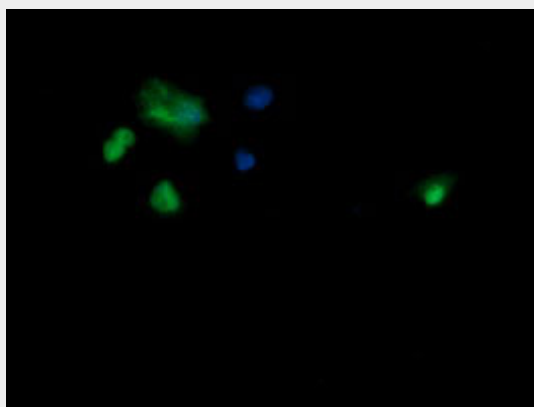
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

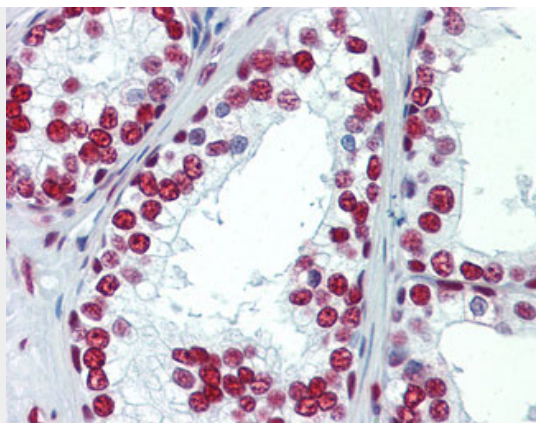
SAE1 Antibody (clone 1G8) - Images



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY SAE1...



Anti-SAE1 mouse monoclonal antibody immunofluorescent staining of COS7 cells transiently...



Anti-SAE1 antibody IHC staining of human prostate.

SAE1 Antibody (clone 1G8) - Background

The heterodimer acts as a E1 ligase for SUMO1, SUMO2, SUMO3, and probably SUMO4. It mediates ATP-dependent activation of SUMO proteins followed by formation of a thioester bond between a SUMO protein and a conserved active site cysteine residue on UBA2/SAE2.

SAE1 Antibody (clone 1G8) - References

- Okuma T., et al. Biochem. Biophys. Res. Commun. 254:693-698(1999).
Gong L., et al. FEBS Lett. 448:185-189(1999).
Desterro J.M.P., et al. J. Biol. Chem. 274:10618-10624(1999).
Zhang Q.-H., et al. Genome Res. 10:1546-1560(2000).
Li W.B., et al. Submitted (APR-2003) to the EMBL/GenBank/DDBJ databases.