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# Anti-SAE1 Rabbit Monoclonal Antibody

**Catalog # ABO15332**

## Specification

### Anti-SAE1 Rabbit Monoclonal Antibody - Product Information

| | |
|---|---|
| Application | **WB, IF, ICC, IP, FC** |
| Primary Accession | Q9UBE0 |
| Host | **Rabbit** |
| Isotype | **IgG** |
| Reactivity | **Rat, Human** |
| Clonality | **Monoclonal** |
| Format | **Liquid** |

**Description**
Anti-SAE1 Rabbit Monoclonal Antibody . Tested in WB, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Rat.

### Anti-SAE1 Rabbit Monoclonal Antibody - 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

**Calculated MW**
38 kDa KDa

**Application Details**
WB 1:1000-1:5000<br>ICC/IF 1:50-1:200<br>IP 1:50<br>FC 1:100

**Contents**
Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**
A synthesized peptide derived from human SAE1

**Purification**
Affinity-chromatography

| | |
|---|---|
| Storage | **Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.** |

### Anti-SAE1 Rabbit Monoclonal Antibody - 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).

## Anti-SAE1 Rabbit Monoclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## Anti-SAE1 Rabbit Monoclonal Antibody - Images

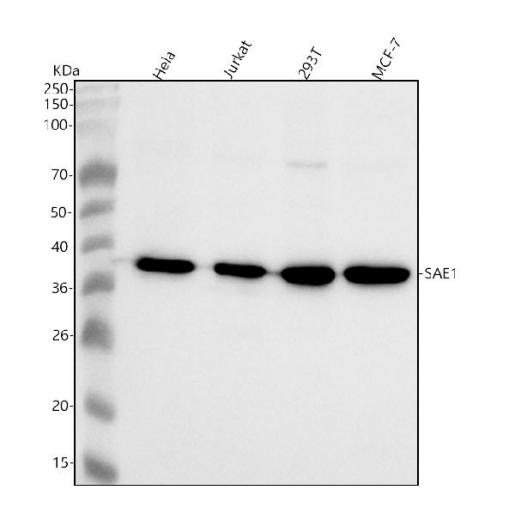


Figure 1. Western blot analysis of SAE1 using anti-SAE1 antibody (M04753-2).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human Hela whole cell lysates,
Lane 2: human Jurkat whole cell lysates,
Lane 3: human 293T whole cell lysates,
Lane 4: human MCF-7 whole cell lysates.
After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90

minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-SAE1 antigen affinity purified monoclonal antibody (Catalog # M04753-2) at 1:1000 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:1000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for SAE1 at approximately 38 kDa. The expected band size for SAE1 is at 38 kDa.