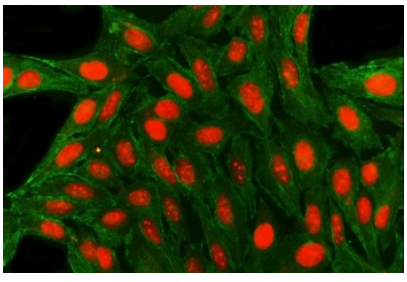
# SAE1 Antibody / SUMO-1 activating enzyme subunit 1 (RQ7525)

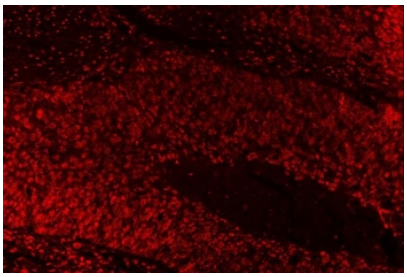
| Catalog No. | Formulation | Size |
|---|---|---|
| RQ7525 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

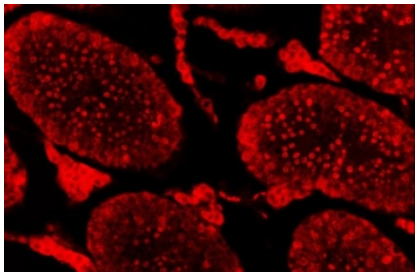
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity purified |
| **Buffer** | Lyophilized from 1X PBS with 2% Trehalose |
| **UniProt** | Q9UBE0 |
| **Localization** | Nuclear, cytoplasmic |
| **Applications** | Western blot: 0.5-1ug/ml<br>Immunohistochemistry (FFPE): 2-5ug/ml<br>Immunofluorescence: 5ug/ml<br>Direct ELISA: 0.1-0.5ug/ml |
| **Limitations** | This SAE1 antibody is available for research use only. |



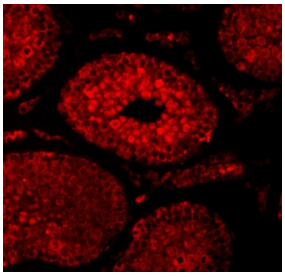
Immunofluorescent staining of FFPE human U-2 OS cells with SAE1 antibody (red) and Alpha Tubulin mAb (blue). HIER: steam section in pH6 citrate buffer for 20 min.



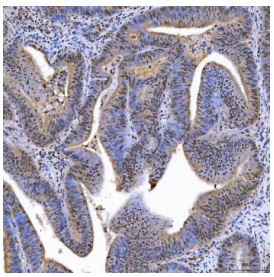
Immunofluorescent staining of FFPE human esophageal squamous carcinoma tissue with SAE1 antibody. HIER: steam section in pH8 EDTA buffer for 20 min.



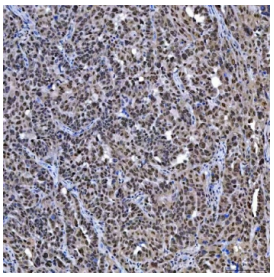
Immunofluorescent staining of FFPE mouse testis tissue with SAE1 antibody. HIER: steam section in pH8 EDTA buffer for 20 min.



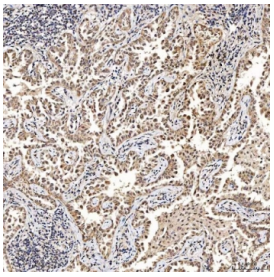
Immunofluorescent staining of FFPE rat testis tissue with SAE1 antibody. HIER: steam section in pH8 EDTA buffer for 20 min.



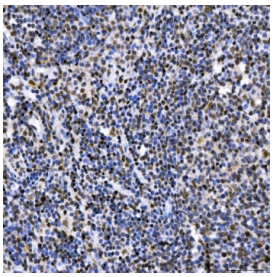
IHC staining of FFPE human intestinal cancer tissue with SAE1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



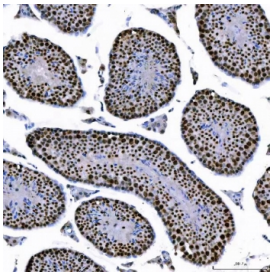
IHC staining of FFPE human ovarian cancer tissue with SAE1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



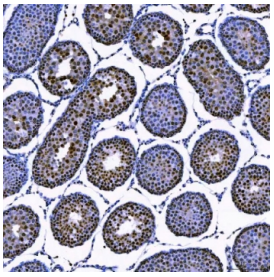
IHC staining of FFPE human lung cancer tissue with SAE1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



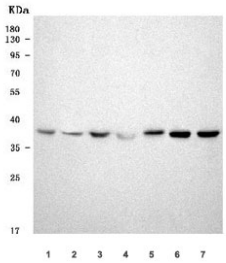
IHC staining of FFPE human duodenum tissue with SAE1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE mouse testis tissue with SAE1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat testis tissue with SAE1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.




Western blot testing of 1) human HeLa, 2) human Jurkat, 3) human 293T, 4) human MCF7, 5) rat testis, 6) mouse testis and 7) mouse thymus tissue lysate with SAE1 antibody. Predicted molecular weight ~38 kDa.

## Description

SUMO-activating enzyme subunit 1 is a protein that in humans is encoded by the SAE1 gene. Posttranslational modification of proteins by the addition of the small protein SUMO, or sumoylation, regulates protein structure and intracellular localization. SAE1 and UBA2 form a heterodimer that functions as a SUMO-activating enzyme for the sumoylation of proteins.

## Application Notes

Optimal dilution of the SAE1 antibody should be determined by the researcher.

## Immunogen

E. coli-derived recombinant human protein (amino acids R33-M299) was used as the immunogen for the SAE1 antibody.

## Storage

After reconstitution, the SAE1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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