

SAE1 Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a full length recombinant SAE1.****Catalog # AT3766a****Specification**

SAE1 Antibody (monoclonal) (M01) - Product Information

Application	WB, IHC, IF, E
Primary Accession	Q9UBE0
Other Accession	BC000344
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1 lambda
Calculated MW	38450

SAE1 Antibody (monoclonal) (M01) - 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

SAE1 (AAH00344, 1 a.a. ~ 346 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

IHC~~1:100~500

IF~~1:50~200

E~~N/A

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

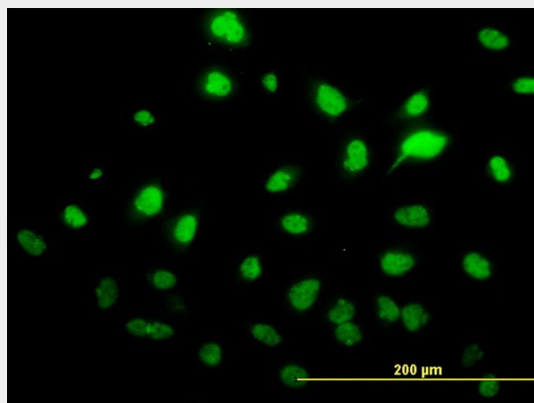
SAE1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

SAE1 Antibody (monoclonal) (M01) - Protocols

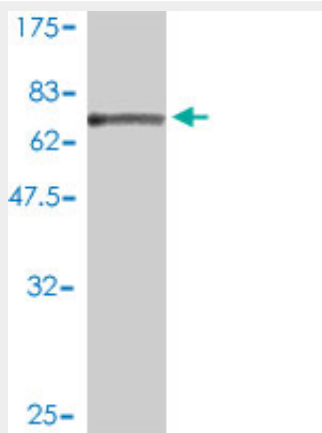
Provided below are standard protocols that you may find useful for product applications.

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

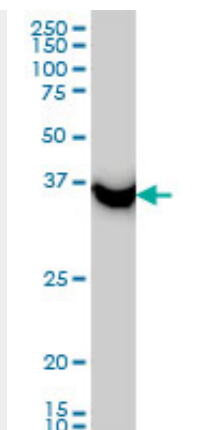
SAE1 Antibody (monoclonal) (M01) - Images



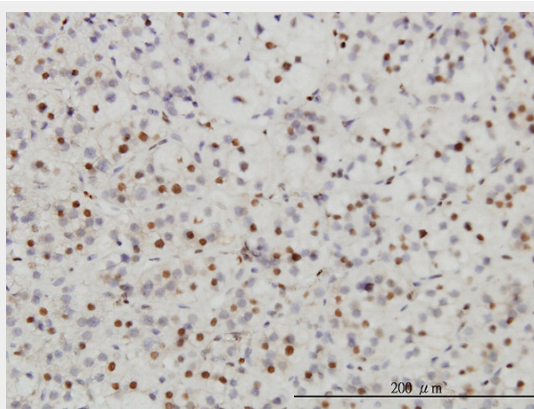
Immunofluorescence of monoclonal antibody to SAE1 on HeLa cell. [antibody concentration 10 ug/ml]



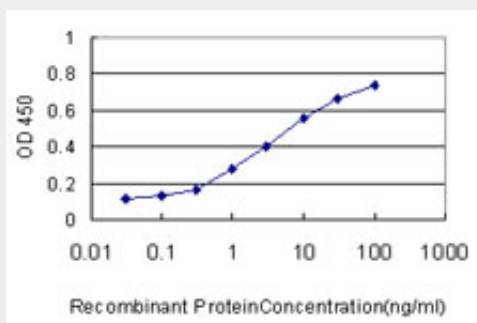
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (63.8 KDa) .



SAE1 monoclonal antibody (M01), clone 1G4-1G5 Western Blot analysis of SAE1 expression in HeLa (Cat # AT3766a)



Immunoperoxidase of monoclonal antibody to SAE1 on formalin-fixed paraffin-embedded human adrenal gland. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged SAE1 is approximately 0.1ng/ml as a capture antibody.

SAE1 Antibody (monoclonal) (M01) - Background

Posttranslational modification of proteins by the addition of the small protein SUMO (see SUMO1; MIM 601912), or sumoylation, regulates protein structure and intracellular localization. SAE1 and UBA2 (MIM 613295) form a heterodimer that functions as a SUMO-activating enzyme for the sumoylation of proteins (Okuma et al., 1999 [PubMed 9920803]).

SAE1 Antibody (monoclonal) (M01) - References

1. Autoantibodies to small ubiquitin-like modifier activating enzymes in Japanese patients with dermatomyositis: comparison with a UK Caucasian cohort. Fujimoto M, Matsushita T, Hamaguchi Y,

Kaji K, Asano Y, Ogawa F, Yamaoka T, Fujikawa K, Tsukada T, Sato K, Echigo T, Hasegawa M, Takehara K. Ann Rheum Dis. 2012 Jul 26.