Rabbit SAE2/UBA2 Polyclonal Antibody | anti-SAE2/UBA2 antibody

Anti-SAE2/UBA2 Picoband antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19171	**Rabbit**	**Human, Mouse, RatNo cross reactivity with other proteins.**	**ELISA, Immunohistochemistry, Western Blot**

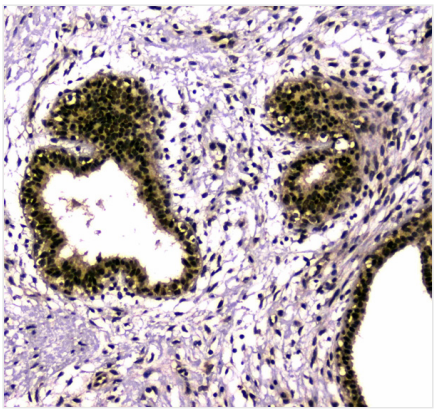
PRODUCT SYNONYMS

SAE2/UBA2; Polyclonal Antibody; Anti-SAE2/UBA2 Picoband antibody; SUMO-activating enzyme subunit 2; Anthracycline-associated resistance ARX; Ubiquitin-like 1-activating enzyme E1B; Ubiquitin-like modifier-activating enzyme 2; UBA2; SAE2; UBLE1B; HRIHFB2115; anti-SAE2/UBA2 antibody

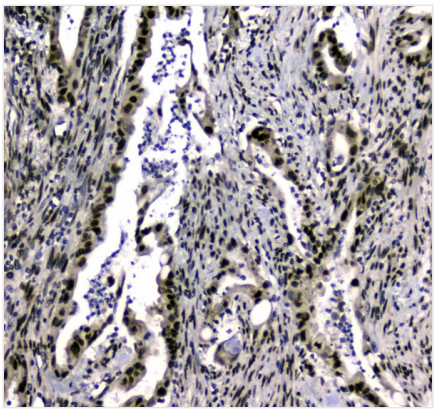
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Form/Format	Lyophilized
Sequence Length	544
Applicable Applications for anti-SAE2/UBA2 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Application Notes	WB: 0.1-0.5mug/ml Immunohistochemistry (Paraffin-embedded Section): 0.5-1mug/ml Direct ELISA: 0.1-0.5mug/ml
Immunogen	E Coli-derived human SAE2/UBA2 recombinant protein (Position: E449-K564).
Subcellular Localization	Cytoplasm. Nucleus. Shuttles between the cytoplasm and the nucleus, sumoylation is required either for nuclear translocation or nuclear retention.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

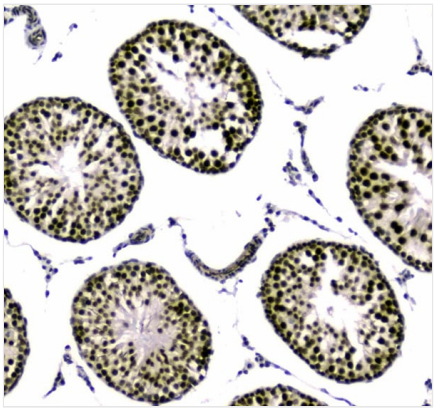
IMAGES



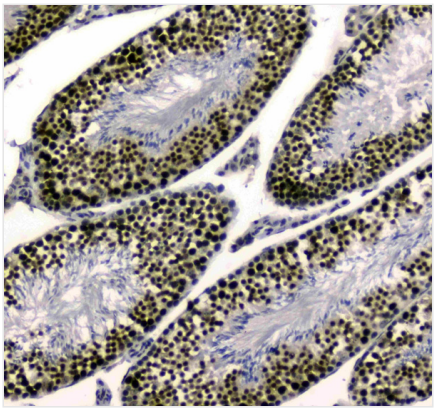
IHC (Immunohistchemistry)
Figure 6. IHC analysis of SAE2/UBA2 using anti-SAE2/UBA2 antibody (AAA19171).SAE2/UBA2 was detected in paraffin-embedded section of mouse testis tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-SAE2/UBA2 Antibody (AAA19171) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.



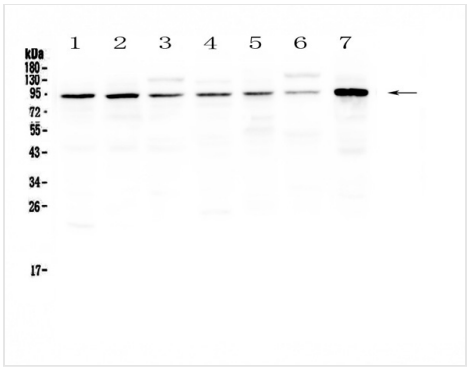
IHC (Immunohistochemistry)
Figure 5. IHC analysis of SAE2/UBA2 using anti-SAE2/UBA2 antibody (AAA19171).SAE2/UBA2 was detected in paraffin-embedded section of rat testis tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-SAE2/UBA2 Antibody (AAA19171) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)
Figure 4. IHC analysis of SAE2/UBA2 using anti-SAE2/UBA2 antibody (AAA19171).SAE2/UBA2 was detected in paraffin-embedded section of human mammary cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-SAE2/UBA2 Antibody (AAA19171) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

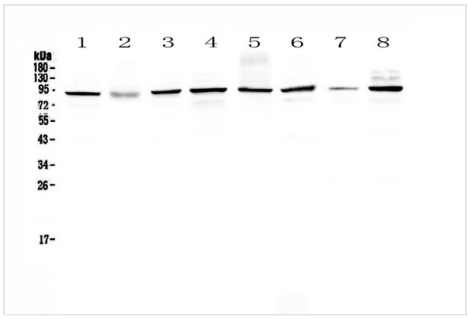


IHC (Immunohistochemistry)
Figure 3. IHC analysis of SAE2/UBA2 using anti-SAE2/UBA2 antibody (AAA19171).SAE2/UBA2 was detected in paraffin-embedded section of human colon cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-SAE2/UBA2 Antibody (AAA19171) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 2. Western blot analysis of SAE2/UBA2 using anti-SAE2/UBA2 antibody (AAA19171).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 50ug of sample under reducing conditions.Lane 1: rat brain tissue lysates,Lane 2: rat lung tissue lysates,Lane 3: rat liver tissue lysates,Lane 4: mouse brain tissue lysates,Lane 5: mouse lung tissue lysates,Lane 6: mouse liver tissue lysates,Lane 7: mouse testis tissue lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-SAE2/UBA2 antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree 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 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for SAE2/UBA2 at approximately 90KD. The expected band size for SAE2/UBA2 is at 71KD.



WB (Western Blot)

Figure 1. Western blot analysis of SAE2/UBA2 using anti-SAE2/UBA2 antibody (AAA19171).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 50ug of sample under reducing conditions.Lane 1: human Hela whole cell lysates,Lane 2: human placenta tissue lysates,Lane 3: human MCF-7 whole cell lysates,Lane 4: human A549 whole cell lysates,Lane 5: human SK-OV-3 whole cell lysates,Lane 6: human 22RV1 whole cell lysates,Lane 7: human A431 whole cell lysates,Lane 8: human COLO-320 whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-SAE2/UBA2 antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree 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 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for SAE2/UBA2 at approximately 90KD. The expected band size for SAE2/UBA2 is at 71KD.

ADDITIONAL INFORMATION

Related Product Information for anti-SAE2/UBA2 antibody	Description: Ubiquitin-like 1-activating enzyme E1B (UBLE1B) also known as SUMO-activating enzyme subunit 2 (SAE2) is an enzyme that in humans is encoded by the UBA2 gene. 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 (MIM 613294) and UBA2 form a heterodimer that functions as a SUMO-activating enzyme for the sumoylation of proteins Protein 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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4885649
NCBI GeneID	10054
NCBI Accession #	NP_005490.1
NCBI GenBank Nucleotide #	NM_005499.2
UniProt Accession #	Q9UBT2; O95605; Q59H87; Q6IBP6; Q9NTJ1; Q9UED2; B3KWB9
Molecular Weight	60,839 Da
NCBI Official Full Name	SUMO-activating enzyme subunit 2
NCBI Official Synonym Full Names	ubiquitin like modifier activating enzyme 2
NCBI Official Symbol	UBA2
NCBI Official Synonym Symbols	ARX; SAE2; HRIHFB2115
NCBI Protein Information	SUMO-activating enzyme subunit 2
UniProt Protein Name	SUMO-activating enzyme subunit 2

UniProt Gene Name	**UBA2**
UniProt Synonym Gene Names	SAE2; UBLE1B

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://www.aaabiotech.com/polyclonal/sae2-uba2-antibody-immunohistochemistry-western-blot-elisa/19171