10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SAE2 / UBA2 Antibody (aa160-210)

Rabbit Polyclonal Antibody
Catalog # ALS12130

Specification

SAE2 / UBA2 Antibody (aa160-210) - Product Information

Application	**WB**
Primary Accession	Q9UBT2
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**71kDa KDa**

SAE2 / UBA2 Antibody (aa160-210) - Additional Information

Gene ID 10054

Other Names
SUMO-activating enzyme subunit 2, 6.3.2.-, Anthracycline-associated resistance ARX, Ubiquitin-like 1-activating enzyme E1B, Ubiquitin-like modifier-activating enzyme 2, UBA2, SAE2, UBLE1B

Target/Specificity
A synthetic peptide within amino acid residues 160-210 of human SAE2 was used as the immunogen.

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions
SAE2 / UBA2 Antibody (aa160-210) is for research use only and not for use in diagnostic or therapeutic procedures.

SAE2 / UBA2 Antibody (aa160-210) - Protein Information

Name UBA2

Synonyms SAE2, UBLE1B

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
Cytoplasm. Nucleus. Note=Shuttles between the cytoplasm and the nucleus, sumoylation is required either for nuclear translocation or nuclear retention

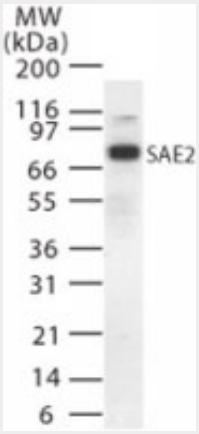
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SAE2 / UBA2 Antibody (aa160-210) - 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

SAE2 / UBA2 Antibody (aa160-210) - Images



Western blot of SAE2 in HeLa cell lysate using antibody at 1.0 ug/ml.

SAE2 / UBA2 Antibody (aa160-210) - 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.

SAE2 / UBA2 Antibody (aa160-210) - 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).
Slapak C.,et al.Submitted (SEP-1995) to the EMBL/GenBank/DDBJ databases.
Wiemann S.,et al.Genome Res. 11:422-435(2001).