

## Rabbit anti-Human Uba2 Polyclonal Antibody | anti-Uba2 antibody

Uba2 Antibody

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                                                       |
|-----------|--------|------------|------------------------------------------------------------------------------------|
| AAA320927 | Rabbit | Human      | ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot |

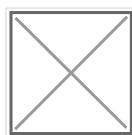
### PRODUCT SYNONYMS

Uba2; Polyclonal Antibody; Uba2 Antibody; Anthracycline associated resistance ARX; Anthracycline-associated resistance ARX; ARX; FLJ13058; HRIHFB2115; SAE 2; SAE2; SAE2\_HUMAN; SUMO 1 activating enzyme subunit 2; SUMO activating enzyme subunit 2; SUMO-activating enzyme subunit 2; UBA2; UBA2 ubiquitin activating enzyme E1 homolog; Ubiquitin like 1 activating enzyme E1B; Ubiquitin like modifier activating enzyme 2; Ubiquitin-like 1-activating enzyme E1B; UBLE1B; anti-Uba2 antibody

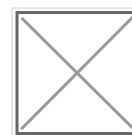
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                          |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                   |
| Reactivity                                     | Human                                                                                                    |
| Clonality                                      | Polyclonal                                                                                               |
| Isotype                                        | IgG                                                                                                      |
| Specificity                                    | Uba2 antibody detects endogenous levels of total Uba2                                                    |
| Purity/Purification                            | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.            |
| Form/Format                                    | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.            |
| Concentration                                  | 1mg/ml (varies by lot)                                                                                   |
| Sequence Length                                | 640                                                                                                      |
| Applicable Applications for anti-Uba2 antibody | ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot) |
| Immunogen                                      | A synthesized peptide derived from human Uba2                                                            |
| Subcellular Location                           | Nucleus.                                                                                                 |
| Predicted Cross Reactivity                     | <b>Pig, Bovine, Horse, Sheep</b>                                                                         |
| Similarity                                     | Pig (85%), Bovine (86%), Horse (86%), Sheep (86%)                                                        |
| Conjugation                                    | Unconjugated                                                                                             |
| Preparation and Storage                        | Store at -20 degree C. Stable for 12 months from date of receipt.                                        |

### IMAGES


**WB (Western Blot)**

Western blot analysis of extracts from HepG2, using Uba2 Antibody.

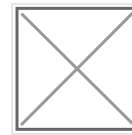

**WB (Western Blot)**

Western blot analysis on 293 cell lysate using Uba2 Antibody. The lane on the left is treated with the antigen-specific peptide.



#### IF (Immunofluorescence)

AAA320927 staining 293 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



#### IHC (Immunohistochemistry)

AAA320927 at 1/100 staining human colon tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

## ADDITIONAL INFORMATION

### Related Product Information for anti-Uba2 antibody

Description: SAE2 a protein of the ubiquitin-activating E1 family. Acts as a UBL1 E1 ligase. Mediates ATP-dependent activation of UBL1 and formation of a thiolester with a conserved cysteine residue on SAE2.  
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.  
Subunit Structure: Heterodimer of SAE1 and UBA2/SAE2. The heterodimer corresponds to the two domains that are encoded on a single polypeptide chain in ubiquitin-activating enzyme E1. Interacts with UBE2I.  
Post-translational Modifications: Sumoylated with SUMO1 and SUMO2/3 and by UBC9. Sumoylation at Lys-236 inhibits enzymatic activity. Sumoylation at the C-terminal lysine cluster plays an essential role in nuclear trafficking.  
Similarity: Belongs to the ubiquitin-activating E1 family.

## 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                 | Observed: 71 kDa<br>Predicted: 72 kDa                  |
| 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                | <b>UBA2</b>                                            |
| 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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://stage.aaabiotech.com/polyclonal/uba2-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/320927>