

Rabbit anti-Human ARS2/SRRT Polyclonal Antibody | anti-ARS2/SRRT antibody

Anti-ARS2/SRRT Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19845	Rabbit	Human	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

ARS2/SRRT; Polyclonal Antibody; Anti-ARS2/SRRT Antibody Picoband; Zinc finger protein Helios; cytochrome c oxidase subunit 4I1 ; Cytochrome c oxidase subunit 4 isoform 1; mitochondrial; Cytochrome c oxidase polypeptide IV; Cytochrome c oxidase subunit IV isoform 1; COX IV-1; COX4I1; COX4; anti-ARS2/SRRT antibody

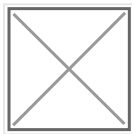
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Ubiquitous.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-ARS2/SRRT antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA
Application Notes	WB: 0.25-0.5ug/ml, Human IHC(Paraffin-embedded Section): 2-5ug/ml, Human ICC/IF: 5ug/ml, Human IF: 5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10 ⁶ cells, Human ELISA: 0.1-0.5ug/ml
Immunogen	E coli-derived human ARS2/SRRT recombinant protein (Position: H125-Q793).
Subcellular Localization	Mitochondrion inner membrane
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	This protein is one of the nuclear-coded polypeptide chains of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM (Flow Cytometry)

Figure 15. Flow Cytometry analysis of U251 cells using anti-ARS2/SRRT antibody (AAA19845).Overlay histogram showing U251 cells stained with AAA19845 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ARS2/SRRT Antibody (AAA19845, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



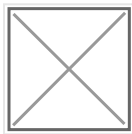
IF (Immunofluorescence)

Figure 13. IF analysis of ARS2/SRRT using anti-ARS2/SRRT antibody (AAA19845).ARS2/SRRT was detected in a paraffin-embedded section of human intestinal cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5ug/mL rabbit anti-ARS2/SRRT Antibody (AAA19845) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IF (Immunofluorescence)

Figure 14. IF analysis of ARS2/SRRT using anti-ARS2/SRRT antibody (AAA19845).ARS2/SRRT was detected in a paraffin-embedded section of human breast cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5ug/mL rabbit anti-ARS2/SRRT Antibody (AAA19845) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IF (Immunofluorescence)

Figure 12. IF analysis of ARS2/SRRT using anti-ARS2/SRRT antibody (AAA19845) and anti-Tubulin Alpha antibody (M03989-3).ARS2/SRRT was detected in immunocytochemical section of Hela cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-ARS2/SRRT Antibody (AAA19845) and mouse anti-Tubulin Alpha antibody (M03989-3) overnight at 4 degree C. DyLight594 Conjugated Goat Anti-Rabbit IgG (BA1142) and DyLight®488 Conjugated Goat Anti-Mouse IgG (BA1126) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

Product Categories/Family for anti-ARS2/SRRT antibody	Primary Antibodies; Cancer; Cancer Metabolism; Integration Of Energy Metabolism; Metabolic Signaling Pathway ; Metabolism; Mitochondria; Mitochondrial; Mitochondrial Markers; Mitochondrial Metabolism; Organelles; Oxidative Phosphorylation; Pathways and Pro
References	1. Andreu-Agullo, C., Maurin, T., Thompson, C. B., Lai, E. C. Ars2 maintains neural stem-cell identity through transcriptional activation of Sox2. Nature 481: 195-198, 2011. 2. Gruber, J. J., Zatechka, D. S., Sabin, L. R., Yong, J., Lum, J. J., Kong, M., Zong, W.-X., Zhang, Z., Lau, C.-K., Rawlings, J., Cherry, S., Ihle, J. N., Dreyfuss, G., Thompson, C. B. Ars2 links nuclear cap-binding complex to RNA interference and cell proliferation. Cell 138: 328-339, 2009. 3. Kiriya, M., Kobayashi, Y., Saito, M., Ishikawa, F., Yonehara, S. Interaction of FLASH with arsenite resistance protein 2 is involved in cell cycle progression at S phase. Molec. Cell. Biol. 29: 4729-4741, 2009.

NCBI AND UNIPROT INFORMATION

NCBI GI #	192807336
NCBI GeneID	51593
NCBI Accession #	NP_001122326.1
NCBI GenBank Nucleotide #	NM_001128854.1
UniProt Accession #	Q9BXP5; O95808; Q32MI4; Q6NT74; Q8TDQ5; Q9BWP6; Q9BXP4; A4D2E5; A4D2E6; A6NK22; B4DJL4; B4DZA6
Molecular Weight	100,666 Da
NCBI Official Full Name	serrate RNA effector molecule homolog isoform e
NCBI Official Synonym Full Names	serrate RNA effector molecule homolog (Arabidopsis)
NCBI Official Symbol	SRRT
NCBI Official Synonym Symbols	ARS2; ASR2; serrate
NCBI Protein Information	serrate RNA effector molecule homolog; arsenite resistance protein; arsenate resistance protein 2; arsenite-resistance protein 2; arsenate resistance protein ARS2
UniProt Protein Name	Serrate RNA effector molecule homolog
UniProt Gene Name	SRRT
UniProt Synonym Gene Names	ARS2; ASR2
UniProt Entry Name	SRRT_HUMAN

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

Online datasheet: <https://stage.aaabiotech.com/polyclonal/ars2-srrt-antibody-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-flow-cytometry-elisa/19845>