

Rabbit Seryl-tRNA synthetase/SERS/SARS1 Polyclonal Antibody | anti-SARS1 antibody

Anti-Seryl-tRNA synthetase/SERS/SARS1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126031	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

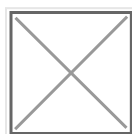
PRODUCT SYNONYMS

Seryl-tRNA synthetase/SERS/SARS1; Polyclonal Antibody; Anti-Seryl-tRNA synthetase/SERS/SARS1 Antibody Picoband; anti-SARS1 antibody

PRODUCT SPECIFICATIONS

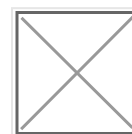
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-SARS1 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human Seryl-tRNA synthetase/SERS/SARS1 recombinant protein (Position: K71-K483).
Preparation and Storage	Store 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.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of HL-60 cells using anti-Seryl-TRNA Synthetase/SERS/SARS1 antibody (AAA126031).Overlay histogram showing HL-60 cells stained with AAA126031 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Seryl-TRNA Synthetase/SERS/SARS1 Antibody (AAA126031, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



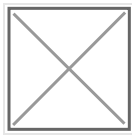
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of Caco-2 cells using anti-Seryl-TRNA Synthetase/SERS/SARS1 antibody (AAA126031).Overlay histogram showing Caco-2 cells stained with AAA126031 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Seryl-TRNA Synthetase/SERS/SARS1 Antibody (AAA126031, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of Seryl-TRNA Synthetase/SERS/SARS1 using anti-Seryl-TRNA Synthetase/SERS/SARS1 antibody (AAA126031).Seryl-TRNA Synthetase/SERS/SARS1 was detected in an immunocytochemical section of A549 cells. 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 5 ug/mL rabbit anti-Seryl-TRNA Synthetase/SERS/SARS1 Antibody (AAA126031) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:100 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.



WB (Western Blot)

Figure 1. Western blot analysis of Seryl-TRNA Synthetase/SERS/SARS1 using anti-Seryl-TRNA Synthetase/SERS/SARS1 antibody (AAA126031).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 30 ug of sample under reducing conditions.Lane 1: human 293T whole cell lysates,Lane 2: human Hela whole cell lysates,Lane 3: human HepG2 whole cell lysates,Lane 4: human K562 whole cell lysates,Lane 5: rat C6 whole cell lysates,Lane 6: mouse brain tissue lysates,Lane 7: mouse Neuro-2a whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-Seryl-TRNA Synthetase/SERS/SARS1 antigen affinity purified polyclonal antibody (#AAA126031) at 0.25 ug/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 1:5000 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 Seryl-TRNA Synthetase/SERS/SARS1 at approximately 59 kDa. The expected band size for Seryl-TRNA Synthetase/SERS/SARS1 is at 59 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-SARS1 antibody	This gene belongs to the class II amino-acyl tRNA family. The encoded enzyme catalyzes the transfer of L-serine to tRNA (Ser) and is related to bacterial and yeast counterparts. Multiple alternatively spliced transcript variants have been described but the biological validity of all variants is unknown.
Product Categories/Family for anti-SARS1 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	16306548
NCBI GeneID	6301
NCBI Accession #	NP_006504.2
NCBI GenBank Nucleotide #	NM_006513.3
UniProt Accession #	P49591; Q5T5C8; Q9NSE3; B2R6Y9
Molecular Weight	58,777 Da
NCBI Official Full Name	serine--tRNA ligase, cytoplasmic
NCBI Official Synonym Full Names	seryl-tRNA synthetase
NCBI Official Symbol	SARS
NCBI Official Synonym Symbols	SERS; SERRS
NCBI Protein Information	serine--tRNA ligase, cytoplasmic; Seryl-tRNA Ser/Sec synthetase; serine tRNA ligase 1, cytoplasmic; seryl-tRNA synthetase, cytoplasmic; seryl-tRNA(Ser/Sec) synthetase
UniProt Protein Name	Serine--tRNA ligase, cytoplasmic
UniProt Gene Name	SARS
UniProt Synonym Gene Names	SERS; SerRS
UniProt Entry Name	SYSC_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.

