

## Rabbit anti-Human SARS2 Polyclonal Antibody | anti-SARS2 antibody

Anti-SARS2 Antibody Picoband

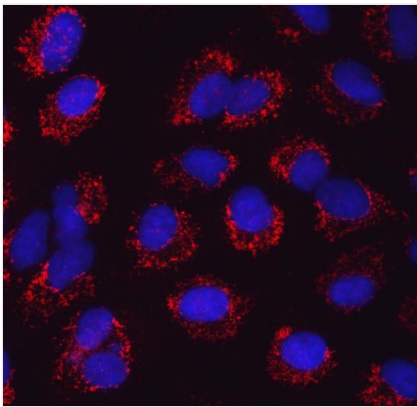
| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                                                       |
|-----------|--------|------------|------------------------------------------------------------------------------------|
| AAA19598  | Rabbit | Human      | Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, ELISA |

### PRODUCT SYNONYMS

SARS2; Polyclonal Antibody; Anti-SARS2 Antibody Picoband; anti-SARS2 antibody

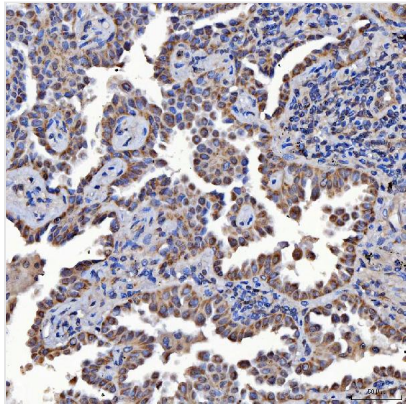
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                                                                                                                                                             |
| Reactivity                                      | Human                                                                                                                                                                                                                                                                                                                                                              |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                                                                                                                                                         |
| Isotype                                         | Rabbit IgG                                                                                                                                                                                                                                                                                                                                                         |
| Purity/Purification                             | Immunogen affinity purified.                                                                                                                                                                                                                                                                                                                                       |
| Form/Format                                     | Lyophilized<br>Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                                                                                                                                                           |
| Concentration                                   | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)                                                                                                                                                                                                                                                                          |
| Applicable Applications for anti-SARS2 antibody | WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), ELISA                                                                                                                                                                                                                                                           |
| Application Notes                               | WB: 0.25-0.5 ug/ml, Human<br>IHC-P: 2-5 ug/ml, Human<br>ICC/IF: 5 ug/ml, Human<br>IF: 5 ug/ml, Human<br>Direct ELISA: 0.1-0.5 ug/ml, Human<br>Tested Species: In-house tested species with positive results.<br>Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC(P) and ICC. |
| Reconstitution                                  | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.                                                                                                                                                                                                                                                                                          |
| Immunogen                                       | E Coli-derived human SARS2 recombinant protein (Position: E46-S518).                                                                                                                                                                                                                                                                                               |
| 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.                                                                                                                                        |



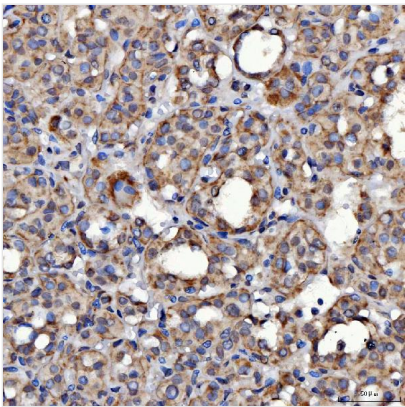
**IF (Immunofluorescence)**

Figure 9. IF analysis of SARS2 using anti-SARS2 antibody (AAA19598).SARS2 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-SARS2 Antibody (AAA19598) 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.



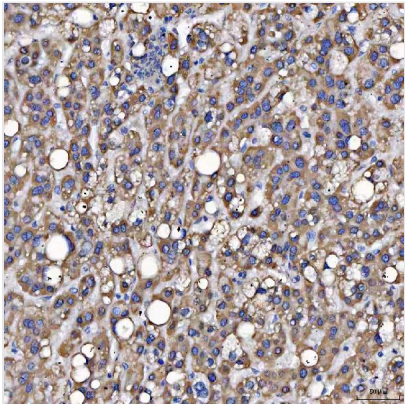
**IHC (Immunohistochemistry)**

Figure 7. IHC analysis of SARS2 using anti-SARS2 antibody (AAA19598).SARS2 was detected in a paraffin-embedded section of human lung 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 2 ug/ml rabbit anti-SARS2 Antibody (AAA19598) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



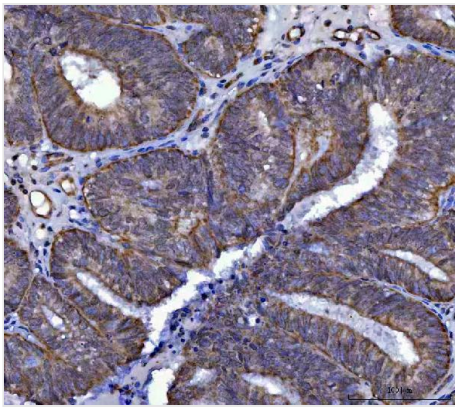
**IHC (Immunohistochemistry)**

Figure 8. IHC analysis of SARS2 using anti-SARS2 antibody (AAA19598).SARS2 was detected in a paraffin-embedded section of human thyroid 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 2 ug/ml rabbit anti-SARS2 Antibody (AAA19598) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



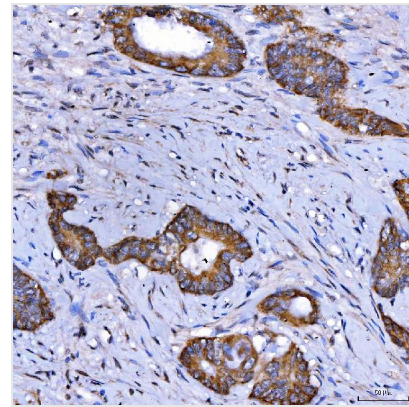
**IHC (Immunohistochemistry)**

Figure 6. IHC analysis of SARS2 using anti-SARS2 antibody (AAA19598).SARS2 was detected in a paraffin-embedded section of human liver 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 2 ug/ml rabbit anti-SARS2 Antibody (AAA19598) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



#### IHC (Immunohistochemistry)

Figure 5. IHC analysis of SARS2 using anti-SARS2 antibody (AAA19598). SARS2 was detected in a paraffin-embedded section of human endometrial 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 2 ug/ml rabbit anti-SARS2 Antibody (AAA19598) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



#### IHC (Immunohistochemistry)

Figure 4. IHC analysis of SARS2 using anti-SARS2 antibody (AAA19598). SARS2 was detected in a paraffin-embedded section of human colon 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 2 ug/ml rabbit anti-SARS2 Antibody (AAA19598) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.

## ADDITIONAL INFORMATION

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-SARS2 antibody</b> | Seryl-tRNA synthetase, mitochondrial is an enzyme that in humans is encoded by the SARS2 gene. This gene encodes the mitochondrial seryl-tRNA synthetase precursor, a member of the class II tRNA synthetase family. The mature enzyme catalyzes the ligation of Serine to tRNA(Ser) and participates in the biosynthesis of selenocysteinyl-tRNA(sec) in mitochondria. The enzyme contains an N-terminal tRNA binding domain and a core catalytic domain. It functions in a homodimeric form, which is stabilized by tRNA binding. This gene is regulated by a bidirectional promoter that also controls the expression of mitochondrial ribosomal protein S12. Both genes are within the critical interval for the autosomal dominant deafness locus DFNA4 and might be linked to this disease. Multiple transcript variants encoding different isoforms have been identified for this gene. |
| <b>Product Categories/Family for anti-SARS2 antibody</b>   | <a href="#">Primary Antibodies</a> , <a href="#">Rabbit Polyclonal Antibodies</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## NCBI AND UNIPROT INFORMATION

|                                         |                                                                                                                                                                                                                       |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NCBI GI #</b>                        | <a href="#">225579074</a>                                                                                                                                                                                             |
| <b>NCBI GeneID</b>                      | <a href="#">54938</a>                                                                                                                                                                                                 |
| <b>NCBI Accession #</b>                 | <a href="#">NP_001139373.1</a>                                                                                                                                                                                        |
| <b>NCBI GenBank Nucleotide #</b>        | <a href="#">NM_001145901.1</a>                                                                                                                                                                                        |
| <b>UniProt Accession #</b>              | <a href="#">Q9NP81</a> ; <a href="#">Q9BVP3</a> ; <a href="#">A6NHW7</a> ; <a href="#">B4DE10</a>                                                                                                                     |
| <b>Molecular Weight</b>                 | 58,283 Da                                                                                                                                                                                                             |
| <b>NCBI Official Full Name</b>          | serine--tRNA ligase, mitochondrial isoform a                                                                                                                                                                          |
| <b>NCBI Official Synonym Full Names</b> | seryl-tRNA synthetase 2, mitochondrial                                                                                                                                                                                |
| <b>NCBI Official Symbol</b>             | SARS2                                                                                                                                                                                                                 |
| <b>NCBI Official Synonym Symbols</b>    | SYS; SARS; SERS; SARSM; SerRS; SerRSmt; mtSerRS                                                                                                                                                                       |
| <b>NCBI Protein Information</b>         | serine--tRNA ligase, mitochondrial; seryl-tRNA(Ser/Sec) synthetase; serine-tRNA ligase, mitochondrial; mitochondrial seryl-tRNA synthetase; serine tRNA ligase 2, mitochondrial; seryl-tRNA synthetase, mitochondrial |
| <b>UniProt Protein Name</b>             | Serine--tRNA ligase, mitochondrial                                                                                                                                                                                    |
| <b>UniProt Gene Name</b>                | <b>SARS2</b>                                                                                                                                                                                                          |

|                            |              |
|----------------------------|--------------|
| UniProt Synonym Gene Names | SARSM; SerRS |
| UniProt Entry Name         | SYSM_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](mailto:contact@aaabiotech.com)  
Online datasheet: <https://www.aaabiotech.com/polyclonal/sars2-antibody-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-elisa/19598>