

## Rabbit NDUFS5 Polyclonal Antibody | anti-NDUFS5 antibody

Anti-NDUFS5 Antibody Picoband

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                                                    |
|-----------|--------|-------------------|-------------------------------------------------------------------------------------------------|
| AAA19505  | Rabbit | Human, Mouse, Rat | ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

NDUFS5; Polyclonal Antibody; Anti-NDUFS5 Antibody Picoband; anti-NDUFS5 antibody

### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                     |
| Reactivity                                       | Human, Mouse, Rat                                                                                                                                                                                                                                                                                                                                                                                          |
| 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-NDUFS5 antibody | ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                                                                                                                                                                   |
| Application Notes                                | WB: 0.25-0.5 ug/ml, Human, Mouse, Rat<br>IHC-P: 2-5 ug/ml, Human, Mouse, Rat<br>IF: 5 ug/ml, Human<br>FC/FACS: 1-3 ug/1x10 <sup>6</sup> cells, 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). |
| Reconstitution                                   | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.                                                                                                                                                                                                                                                                                                                                  |
| Immunogen                                        | E Coli-derived human NDUF55 recombinant protein (Position: M1-P106).                                                                                                                                                                                                                                                                                                                                       |
| 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.                                                                                                                                                                               |



FCM (Flow Cytometry)

Figure 8. Flow Cytometry analysis of HeLa cells using anti-NDUFS5 antibody (AAA19505).Overlay histogram showing HeLa cells stained with AAA19505 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NDUFS5 Antibody (AAA19505, 1 ug/1x10<sup>6</sup> 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/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 7. IF analysis of NDUFS5 using anti-NDUFS5 antibody (AAA19505).NDUFS5 was detected in a paraffin-embedded section of human colorectal adenocarcinoma 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 5 ug/mL rabbit anti-NDUFS5 Antibody (AAA19505) overnight at 4 degree C. DyLight550 Conjugated Goat Anti-Rabbit IgG (BA1135) 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 6. IHC analysis of NDUFS5 using anti-NDUFS5 antibody (AAA19505).NDUFS5 was detected in a paraffin-embedded section of rat heart 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-NDUFS5 Antibody (AAA19505) 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 NDUFS5 using anti-NDUFS5 antibody (AAA19505).NDUFS5 was detected in a paraffin-embedded section of mouse heart 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-NDUFS5 Antibody (AAA19505) 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 NDUFS5 using anti-NDUFS5 antibody (AAA19505).NDUFS5 was detected in a paraffin-embedded section of human colorectal adenocarcinoma 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-NDUFS5 Antibody (AAA19505) 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 3. IHC analysis of NDUFS5 using anti-NDUFS5 antibody (AAA19505).NDUFS5 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-NDUFS5 Antibody (AAA19505) 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

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-NDUFS5 antibody | NADH dehydrogenase [ubiquinone] iron-sulfur protein 5 is an enzyme that in humans is encoded by the NDUFS5 gene. This gene is a member of the NADH dehydrogenase (ubiquinone) iron-sulfur protein family. The encoded protein is a subunit of the NADH:ubiquinone oxidoreductase (complex I), the first enzyme complex in the electron transport chain located in the inner mitochondrial membrane. Alternative splicing results in multiple transcript variants and pseudogenes have been identified on chromosomes 1, 4 and 17. |
| Product Categories/Family for anti-NDUFS5 antibody   | Primary Antibodies, Rabbit Polyclonal Antibodies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

NCBI AND UNIPROT INFORMATION

|                           |                |
|---------------------------|----------------|
| NCBI GI #                 | 297206823      |
| NCBI GeneID               | 4725           |
| NCBI Accession #          | NP_001171908.1 |
| NCBI GenBank Nucleotide # | NM_001184979.1 |

|                                  |                                                                                                                                                                                             |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UniProt Accession #              | O43920                                                                                                                                                                                      |
| Molecular Weight                 | 12,518 Da                                                                                                                                                                                   |
| NCBI Official Full Name          | NADH dehydrogenase                                                                                                                                                                          |
| NCBI Official Synonym Full Names | NADH dehydrogenase (ubiquinone) Fe-S protein 5, 15kDa (NADH-coenzyme Q reductase)                                                                                                           |
| NCBI Official Symbol             | NDUFS5                                                                                                                                                                                      |
| NCBI Official Synonym Symbols    | CI15K; CI-15k                                                                                                                                                                               |
| NCBI Protein Information         | NADH dehydrogenase [ubiquinone] iron-sulfur protein 5; NADH dehydrogenase [ubiquinone] iron-sulfur protein 5; CI-15 kDa; complex I-15 kDa; NADH:ubiquinone oxidoreductase 15 kDa IP subunit |
| UniProt Protein Name             | NADH dehydrogenase [ubiquinone] iron-sulfur protein 5                                                                                                                                       |
| UniProt Gene Name                | NDUFS5                                                                                                                                                                                      |
| UniProt Synonym Gene Names       | CI-15 kDa                                                                                                                                                                                   |
| UniProt Entry Name               | NDUS5_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.

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