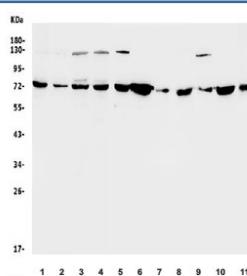


## SDHA Antibody (RQ5669)

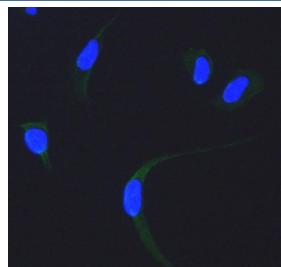
| Catalog No. | Formulation   | Size   |
|-------------|---|--------|
| RQ5669      | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

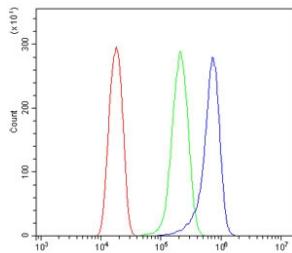
|                           |  |
|---------------------------|--|
| <b>Availability</b>       | 1-3 business days  |
| <b>Species Reactivity</b> | Human, Mouse, Rat  |
| <b>Format</b>             | Antigen affinity purified  |
| <b>Host</b>               | Rabbit   |
| <b>Clonality</b>          | Polyclonal   |
| <b>Isotype</b>            | Rabbit IgG   |
| <b>Purity</b>             | Affinity purified  |
| <b>Buffer</b>             | Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide                                  |
| <b>UniProt</b>            | P31040   |
| <b>Applications</b>       | Western Blot : 0.5-1ug/ml<br>Immunofluorescence : 2-4ug/ml<br>Flow Cytometry : 1-3ug/million cells |
| <b>Limitations</b>        | This SDHA antibody is available for research use only.   |



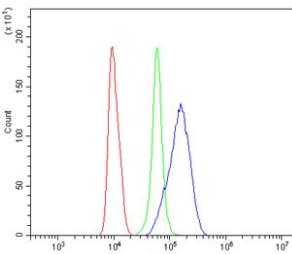
Western blot testing of human 1) HeLa, 2) HepG2, 3) HEK293, 4) Caco-2 and rat 5) brain, 6) kidney, 7) spleen, 8) liver and mouse 9) brain, 10) kidney, 11) liver lysate with SDHA antibody. Predicted molecular weight ~72 kDa.



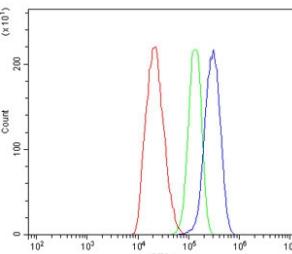
Immunofluorescent staining of FFPE human HeLa cells with SDHA antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Flow cytometry testing of human HeLa cells with SDHA antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= SDHA antibody.



Flow cytometry testing of mouse RAW264.7 cells with SDHA antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= SDHA antibody.



Flow cytometry testing of rat C6 cells with SDHA antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= SDHA antibody.

## Description

Succinate dehydrogenase complex, subunit A, flavoprotein variant is a protein that in humans is encoded by the SDHA gene. It is mapped to 5p15.33. This gene encodes a major catalytic subunit of succinate-ubiquinone oxidoreductase, a complex of the mitochondrial respiratory chain. The complex is composed of four nuclear-encoded subunits and is localized in the mitochondrial inner membrane. Mutations in this gene have been associated with a form of mitochondrial respiratory chain deficiency known as Leigh Syndrome. A pseudogene has been identified on chromosome 3q29. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

## Application Notes

Optimal dilution of the SDHA antibody should be determined by the researcher.

## Immunogen

Amino acids YRPVIDKTLNEADCAT from the human protein were used as the immunogen for the SDHA antibody.

## Storage

After reconstitution, the SDHA antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

