Basic Information

Catalog Number: 14865-1-AP

Size: 150μl, Concentration: 300 μg/ml by Nanodrop and 160 μg/ml by Bradford method using BSA as the standard

Source: Rabbit

Isotype: IgG

Immunogen Catalog Number: AG6677

GenBank Accession Number: BC001380

GeneID (NCBI): 6389

Full Name: succinate dehydrogenase complex, subunit A, flavoprotein (Fp)

Calculated MW: 73 kDa

Observed MW: 62-73 kDa

Purification Method: Antigen affinity purification

Recommended Dilutions:

- WB: 1:5000-1:50000
- IP: 0.5-4.0 μg for IP and 1:500-1:1000 for WB
- IHC: 1:50-1:500
- IF: 1:200-1:800

Applications

Tested Applications:

- IF, IHC, IP, WB, ELISA

Cited Applications:

- IF, IHC, IP, WB

Species Specificity:

- human, mouse, rat

Cited Species:

- human, rat, mouse, zebrafish, pig

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

- WB: HEK-293 cells, HeLa cells, HepG2 cells, mouse brain tissue, rat brain tissue
- IP: mouse brain tissue
- IHC: human liver cancer tissue
- IF: HepG2 cells

Background Information

SDHA, also named as SDH2, SDHF and Fp, belongs to the FAD-dependent oxidoreductase 2 family and FRD/SDH subfamily. SDHA is the flavoprotein subunit of succinate dehydrogenase (SDH) that is involved in complex II of the mitochondrial electron transport chain and is responsible for transferring electrons from succinate to ubiquinone (coenzyme Q). SDHA has 3 isoforms with the molecular mass of 73, 67 and 57 kDa, and the N-terminal (~5 kDa) can be removed in mature form. It can be detected a band of 68 kDa in cutaneous melanoma (PMID: 21698147). SDHA may act as a tumor suppressor.

Notable Publications

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Storage

Storage:

- Store at -20°C. Stable for one year after shipment.

Storage Buffer:

- PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

- Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) [toll free in USA], or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com

W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Selected Validation Data

IP Result of anti-SDHA (IP:14865-1-AP, 4ug; Detection:14865-1-AP 1:500) with mouse brain tissue lysate 4000ug.

Various lysates were subjected to SDS PAGE followed by western blot with 14865-1-AP (SDHA antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 14865-1-AP (SDHA antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using SDHA antibody (14865-1-AP) at dilution of 1:600 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).