

For Research Use Only

SDHAF4 Polyclonal antibody, PBS Only

Catalog Number: 30663-1-PBS



Basic Information

Catalog Number:

30663-1-PBS

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG33549

GenBank Accession Number:

BC104649

GeneID (NCBI):

135154

UNIPROT ID:

Q5VUM1

Full Name:

chromosome 6 open reading frame 57

Observed MW:

15 kDa

Purification Method:

Antigen affinity purification

Applications

Tested Applications:

IHC, IF/ICC, IP, Indirect ELISA

Species Specificity:

human

Background Information

SDHAF4 (Succinate Dehydrogenase Assembly Factor 4) is a key mitochondrial protein specifically responsible for assisting in the assembly and stability of mitochondrial complex II (Succinate Dehydrogenase, SDH). This complex plays a central role in cellular energy metabolism by participating simultaneously in the tricarboxylic acid (TCA) cycle and the electron transport chain. Its function involves binding to the SDHA (flavoprotein) subunit, which is already associated with FAD, thereby preventing excessive ROS generation. It further promotes the assembly of SDHA with the iron-sulfur protein SDHB to form the catalytic dimer. This ensures the proper integration of complex II into the inner mitochondrial membrane, allowing it to participate in both the TCA cycle and electron transport. Deficiency of SDHAF4 leads to reduced SDH activity, accumulation of succinate, and elevated mitochondrial superoxide levels, which are associated with certain cardiomyopathies and tumor metabolic reprogramming.

Storage

Storage:

Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS only, pH7.3

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

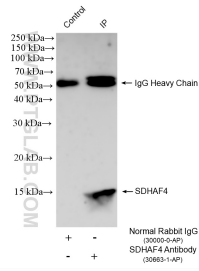
T: 4006900926

E: Proteintech-CN@ptglab.com

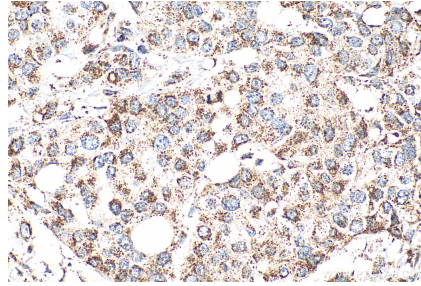
W: ptgcn.com

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

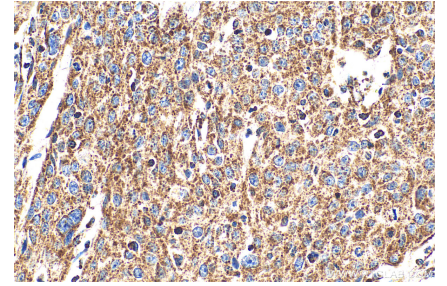
Selected Validation Data



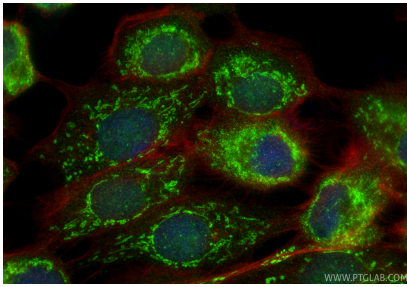
IP result of anti-SDHAF4 (IP:30663-1-AP, 4 μ g; Detection:30663-1-AP 1:1000) with THP-1 cells lysate 1800 μ g. This data was developed using the same antibody clone with 30663-1-PBS in a different storage buffer formulation.



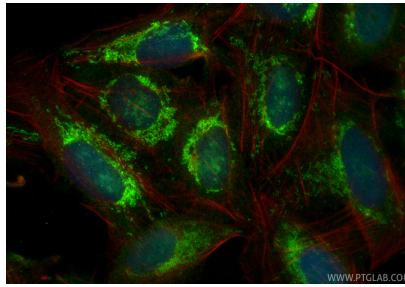
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 30663-1-AP (C6orf57 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 30663-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 30663-1-AP (C6orf57 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 30663-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed A431 cells using C6orf57 antibody (30663-1-AP) at dilution of 1:400 and Coralite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 30663-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed U2OS cells using C6orf57 antibody (30663-1-AP) at dilution of 1:400 and Coralite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 30663-1-PBS in a different storage buffer formulation.