

For Research Use Only

SQRDL Monoclonal antibody

Catalog Number: 68459-1-Ig

Featured Product



Basic Information

Catalog Number:

68459-1-Ig

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG10762

GenBank Accession Number:

BC016836

GeneID (NCBI):

58472

UNIPROT ID:

Q9Y6N5

Full Name:

sulfide quinone reductase-like (yeast)

Calculated MW:

450 aa, 50 kDa

Observed MW:

50 kDa

Purification Method:

Protein A purification

CloneNo.:

1B4E3

Recommended Dilutions:

WB 1:5000-1:20000

IP 0.5-4.0 ug for 1.0-3.0 mg of total

protein lysate

IHC 1:2000-1:8000

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Species Specificity:

human, 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 : A549 cells, HeLa cells, HepG2 cells, HT-29 cells, hTERT-RPE1 cells, THP-1 cells, pig liver tissue

IP : HeLa cells,

IHC : human skin cancer tissue,

IF/ICC : HepG2 cells,

Background Information

SQRDL(Sulfide:quinone oxidoreductase, mitochondrial) catalyzes the oxidation of hydrogen sulfide, with the help of a quinone. Although the SQRDL precursor protein displays a molecular weight of 50 kDa, a prominent band at about 46 kDa is detected by western blot. This discrepancy reflects the cleavage of an N-terminal targeting sequence of 4 kDa during the import of the protein into the mitochondria(PMID:22067608). SQRDL is one of the enzymes involved in H₂S signaling in a discrete population of neurons, oligodendrocytes, and endothelial cells.

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

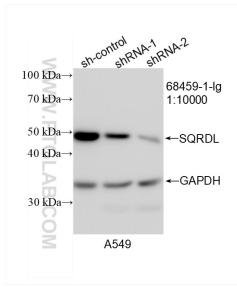
For technical support and original validation data for this product please contact:

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

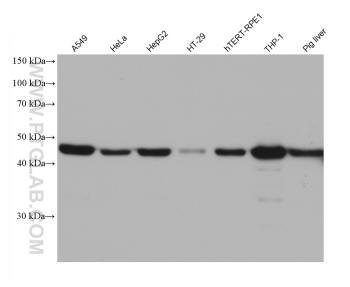
E: proteintech@ptglab.com
W: ptglab.com

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

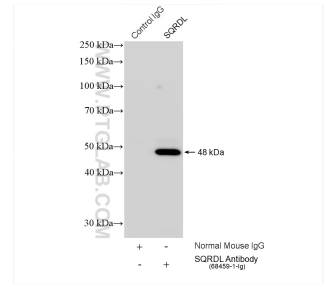
Selected Validation Data



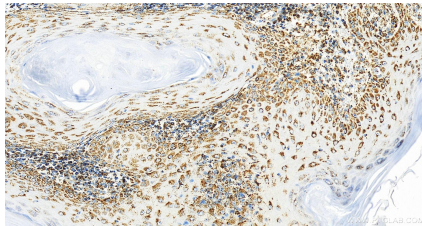
WB result of SQRDL antibody (68459-1-Ig; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SQRDL transfected A549 cells.



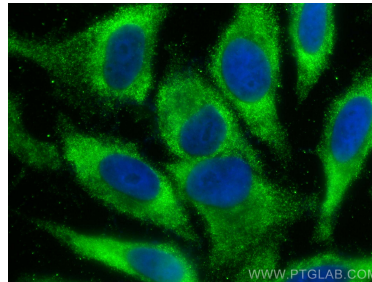
Various lysates were subjected to SDS PAGE followed by western blot with 68459-1-Ig (SQRLD antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



IP result of anti-SQRDL (IP:68459-1-Ig, 4ug;
Detection:68459-1-Ig 1:3000) with HeLa cells lysate
1560 ug.



Immunohistochemical analysis of paraffin-embedded skin cancer slide using 68459-1-Ig (SQRD1 antibody) at dilution of 1:4000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 5QRDL antibody (68459-1-Ig, Clone: 1B4E3) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1).