

For Research Use Only

SQRDL Polyclonal antibody

Catalog Number: 17256-1-AP

Featured Product

23 Publications



Basic Information

Catalog Number: 17256-1-AP	GenBank Accession Number: BC016836	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 550 µg/ml by Nanodrop and 367 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 58472	Recommended Dilutions: WB 1:1000-1:4000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:20-1:200
Source: Rabbit	Full Name: sulfide quinone reductase-like (yeast)	
Isotype: IgG	Calculated MW: 450 aa, 50 kDa	
Immunogen Catalog Number: AG10762	Observed MW: 50 kDa	

Applications

Tested Applications:

IHC, IP, WB, ELISA

Cited Applications:

IHC, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, chicken, rat, mouse, 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: HeLa cells, HT-29 cells, HepG2 cells, THP-1 cells, HepG cells

IP: HeLa cells,

IHC: human brain tissue, human testis tissue, human colon cancer tissue, human liver cancer tissue, mouse liver tissue, rat liver tissue, human spleen tissue, human lung tissue

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.

Notable Publications

Author	Pubmed ID	Journal	Application
Pilar González-García	32975579	Hum Mol Genet	WB
Giulio Kleiner	30251690	Biochim Biophys Acta Mol Basis Dis	WB
Agustín Hidalgo-Gutiérrez	30482867	EMBO Mol Med	WB

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

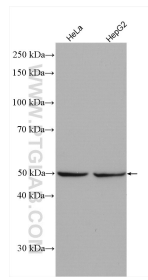
For technical support and original validation data for this product please contact:

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

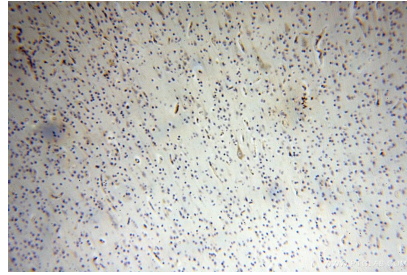
E: proteintech@ptglab.com
W: ptglab.com

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

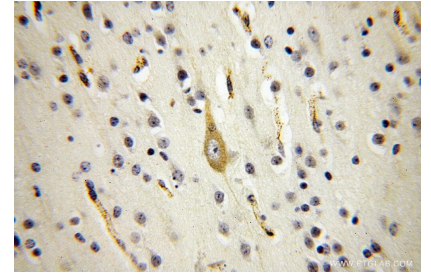
Selected Validation Data



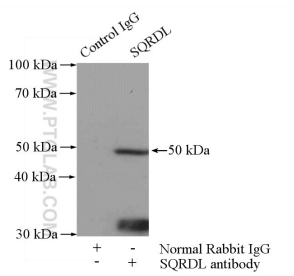
Various lysates were subjected to SDS PAGE followed by western blot with 17256-1-AP (SQRD L antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



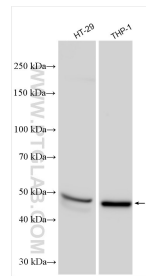
Immunohistochemical analysis of paraffin-embedded human brain using 17256-1-AP (SQRD L antibody) at dilution of 1:100 (under 10x lens).



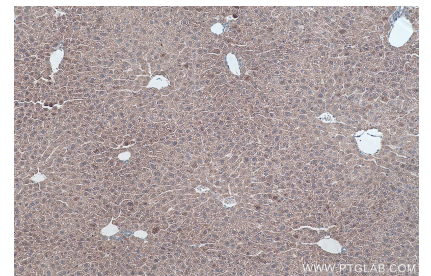
Immunohistochemical analysis of paraffin-embedded human brain using 17256-1-AP (SQRD L antibody) at dilution of 1:100 (under 40x lens).



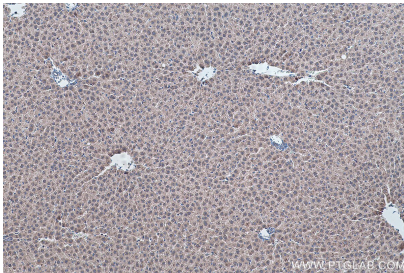
IP Result of anti-SQRD L (IP:17256-1-AP, 4 μ g; Detection:17256-1-AP 1:500) with HeLa cells lysate 2000 μ g.



Various lysates were subjected to SDS PAGE followed by western blot with 17256-1-AP (SQRD L antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 17256-1-AP (SQRD L antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat liver tissue slide using 17256-1-AP (SQRD L antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).