

For Research Use Only

SFXN1 Polyclonal antibody

Catalog Number: 12296-1-AP

Featured Product

6 Publications



Basic Information

Catalog Number:
12296-1-AP

Size:
150ul, Concentration: 400 µg/ml by Nanodrop and 300 µg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG2985

GenBank Accession Number:
BC020517

GeneID (NCBI):
94081

Full Name:
sideroflexin 1

Calculated MW:
35.6 kDa

Observed MW:
30-35 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:6000
IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
IHC 1:50-1:500

Applications

Tested Applications:
IHC, IP, WB, ELISA

Cited Applications:
IF, IHC, IP, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, mouse

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: MCF-7 cells, human brain tissue, mouse liver tissue, mouse brain tissue, rat brain tissue

IP: mouse brain tissue,

IHC: human breast cancer tissue, human kidney tissue

Background Information

SFXN1, the founding member of the SLC56 family, was identified by positional cloning of the mutation in the flexed-tail mouse model with sideroblastic anemia. SFXN1 was recently identified as a mitochondrial serine transporter essential for one-carbon (1C) metabolism, a process in which folate species are generated and used in biosynthetic pathways required for cell proliferation. In HEK293 cells, SFXN1 is the most abundant isoform among the SFXNs.

Notable Publications

Author	Pubmed ID	Journal	Application
Michelle Grace Acoba	33730581	Cell Rep	WB
Mariluz Soula	32778843	Nat Chem Biol	WB
Jing Zhang	35979359	Front Immunol	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

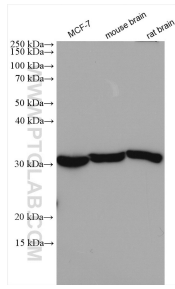
For technical support and original validation data for this product please contact:

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

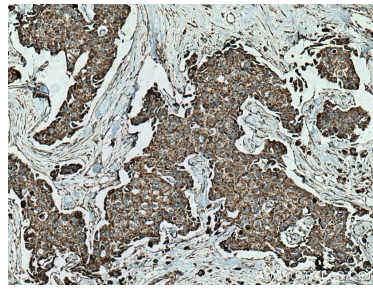
E: proteintech@ptglab.com
W: ptglab.com

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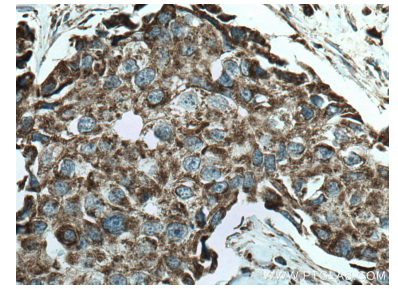
Selected Validation Data



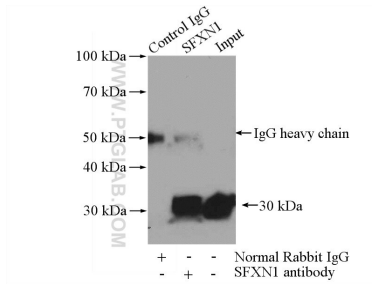
Various lysates were subjected to SDS PAGE followed by western blot with 12296-1-AP (SFXN1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 12296-1-AP (SFXN1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 12296-1-AP (SFXN1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP Result of anti-SFXN1 (IP:12296-1-AP, 4ug; Detection:12296-1-AP 1:800) with mouse brain tissue lysate 4000ug.