

For Research Use Only

# SFXN1 Monoclonal antibody

Catalog Number: 68024-1-Ig



## Basic Information

<b>Catalog Number:</b> 68024-1-Ig	<b>GenBank Accession Number:</b> BC020517	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 94081	<b>CloneNo.:</b> 2D9F1
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q9H9B4	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IF/ICC 1:200-1:800
<b>Isotype:</b> IgG1	<b>Full Name:</b> sideroflexin 1	
<b>Immunogen Catalog Number:</b> AG2985	<b>Calculated MW:</b> 35.6 kDa	
	<b>Observed MW:</b> 32 kDa	

## Applications

### Tested Applications:

WB, IF/ICC, ELISA

### Species Specificity:

Human, Rat, Mouse

### Positive Controls:

WB : PC-3 cells, LNCaP cells, MCF-7 cells, HepG2 cells, HeLa cells, Jurkat cells, MOLT-4 cells, Rat brain tissue, Mouse brain tissue

IF/ICC : MCF-7 cells,

## 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.

## 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

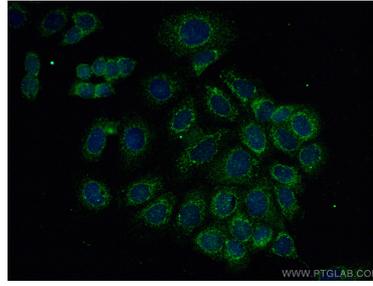
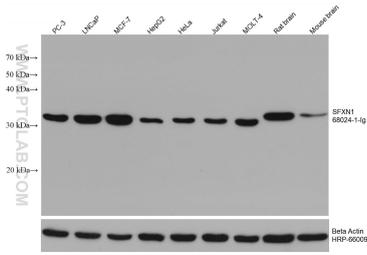
For technical support and original validation data for this product please contact:

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68024-1-Ig (SFXN1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.

Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using SFXN1 antibody (68024-1-Ig, Clone: 2D9F1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).