

# SFXN1 Monoclonal antibody

Catalog Number: 68024-1-Ig

## Basic Information

**Catalog Number:**

68024-1-Ig

**Size:**

1000 µg/ml

**Source:**

Mouse

**Isotype:**

IgG1

**Immunogen Catalog Number:**

AG2985

**GenBank Accession Number:**

BC020517

**GeneID (NCBI):**

94081

**UNIPROT ID:**

Q9H9B4

**Full Name:**

sideroflexin 1

**Calculated MW:**

35.6 kDa

**Observed MW:**

32 kDa

**Purification Method:**

Protein G purification

**CloneNo.:**

2D9F1

**Recommended Dilutions:**

WB 1:5000-1:50000

IF/ICC 1:200-1:800

## Applications

**Tested Applications:**

IF/ICC, WB, 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:**

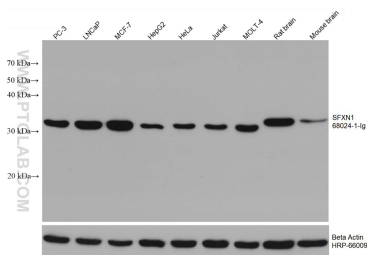
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

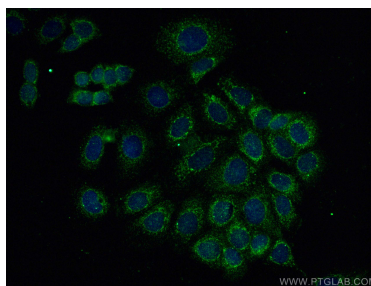
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

## 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).