bs-7157R **[Primary Antibody]**

Mitoferrin 2/SLC25A28 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 81894 **SWISS:** Q96A46

Target: Mitoferrin 2/SLC25A28

Immunogen: KLH conjugated synthetic peptide derived from human Mitoferrin 2: 271-364/364.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Mitoferrin 2, also known as MRS3/4 (mitochondrial RNA-splicing protein 3/4 homolog), mitochondrial iron transporter 2, NPD016, MRS4L or SLC25A28 (solute carrier family 25 member 28), is a 364 amino acid multi-pass membrane protein of the mitochondrial inner membrane that mediates iron uptake. Mitoferrin 2 is thought to play a role in heme synthesis of hemoproteins and iron-sulfur cluster assembly. Ubiquitously expressed, Mitoferrin 2 is found at high levels in skeletal muscle, heart, placenta, kidney, lung, liver, brain and pancreas. Mitoferrin 2 is a member of the mitochondrial carrier family and undergoes alternative splicing events to produce four isoforms. Mitoferrin 2 contains three solcar repeats and is encoded by a gene that maps to human chromosome 10q24.2.

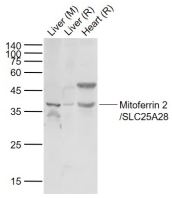
Applications: **WB** (1:500-2000)

Reactivity: Mouse, Rat (predicted: Human, Pig, Sheep, Cow, Dog)

Predicted MW.: 39 kDa

Subcellular Location: Cytoplasm

VALIDATION IMAGES



Sample: Lane 1: Liver (Mouse) Lysate at 40 ug Lane 2: Liver (Rat) Lysate at 40 ug Lane 3: Heart (Rat) Lysate at 40 ug Primary: Anti-Mitoferrin 2/SLC25A28 (bs-7157R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 39 kD Observed band size: 37 kD

SELECTED CITATIONS

- **[IF=6.312]** Christine Fischer. et al. Dietary Iron Overload and Hfe−/− Related Hemochromatosis Alter Hepatic Mitochondrial Function. Antioxidants-Basel. 2021 Nov;10(11):1818 WB ;Mouse. 34829689
- **[IF=6.117]** Jingjing Liu. et al. Iron-frataxin involved in the protective effect of quercetin against alcohol-induced liver mitochondrial dysfunction. J NUTR BIOCHEM. 2022 Dec;:109258 WB ;Mouse, Human. 36587874
- **[IF=6.1]** Chiara Buoso. et al. Dopamine-iron homeostasis interaction rescues mitochondrial fitness in Parkinson's disease. NEUROBIOL DIS. 2024 Apr;:106506 WB ;Human. 38648865
- **[IF=3.383]** Dongchen Wang. et al. Mitoferrin 2 deficiency prevents mitochondrial iron overload-induced endothelial

injury and alleviates atherosclerosis. Exp Cell Res. 2021 May;402:112552 IF ;Mouse. 33711329