# Mitoferrin-2 Antibody / MFRN2 / SLC25A28 (F54817)

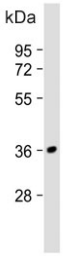
| Catalog No. | Formulation | Size |
|---|---|---|
| F54817-0.4ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.4 ml |
| F54817-0.08ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.08 ml |

**Bulk quote request**

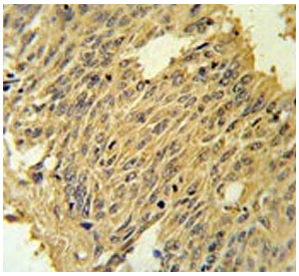
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit Ig |
| **Purity** | Antigen affinity purified |
| **UniProt** | Q96A46 |
| **Localization** | Cytoplasmic |
| **Applications** | Flow cytometry: 1:10-1:50 (1x10e6 cells)<br>Immunohistochemistry (FFPE): 1:50-1:100<br>Western blot: 1:500-1:1000 |
| **Limitations** | This Mitoferrin-2 antibody is available for research use only. |



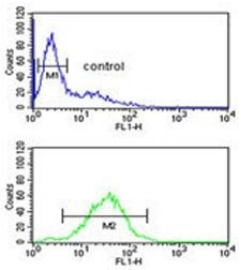

Western blot testing of human Jurkat cell lysate with Mitoferrin-2 antibody. Predicted molecular weight ~39 kDa.




Western blot testing of human MCF7 cell lysate with Mitoferrin-2 antibody. Predicted molecular weight ~39 kDa.



IHC testing of FFPE human lung carcinoma tissue with Mitoferrin-2 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.




Flow cytometry testing of human Jurkat cells with Mitoferrin-2 antibody; Blue=isotype control, Green= Mitoferrin-2 antibody.

## Description

MFRN2 is mitochondrial iron transporter that mediates iron uptake. It is probably required for heme synthesis of hemoproteins and Fe-S cluster assembly in non-erythroid cells. The iron delivered into the mitochondria, presumably as Fe(2+), is then probably delivered to ferrochelatase to catalyze Fe(2+) incorporation into protoprophyrin IX to make heme.

## Application Notes

The stated application concentrations are suggested starting points. Titration of the Mitoferrin-2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

A portion of amino acids 36-64 from the human protein was used as the immunogen for the Mitoferrin-2 antibody.

## Storage

Aliquot the Mitoferrin-2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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