

Product Name: KD-Validated MFN1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00730**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 84.2kDa

Antigen Information

Gene Name	MFN1 MFN1; Mitofusin 1; Transmembrane GTPase MFN1; Mitofusin-1; Fzo Homolog; FLJ20693;
Alternative Names	Mitochondrial Transmembrane GTPase FZO-2; Mitochondrial Transmembrane GTPaseFzo-1; Putative Transmembrane GTPase; EC 3.6.5.-; EC 3.6.5; Hfzo1; Hfzo2
Gene ID	55669.0
SwissProt ID	Q8IWA4
Immunogen	A synthesized peptide derived from rat Mitofusin 1

Background

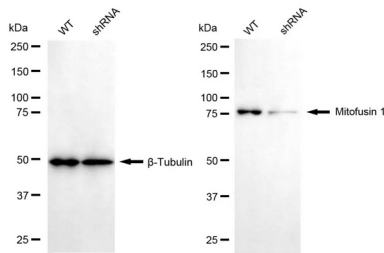
The protein encoded by this gene is a mediator of mitochondrial fusion. This protein and mitofusin 2 are homologs of the Drosophila protein fuzzy onion (Fzo). They are mitochondrial membrane proteins that interact with each other to facilitate

mitochondrial targeting. [provided by RefSeq, Jul 2008]

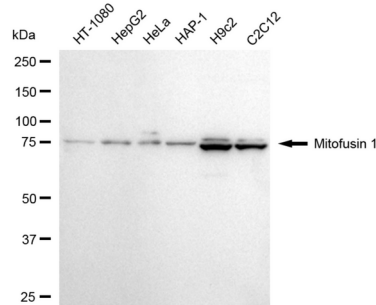
Research Area

Neuroscience, Tags & Cell Markers, Signal Transduction, Metabolism

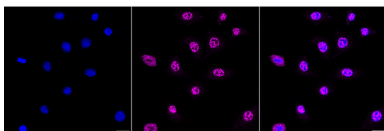
Image Data



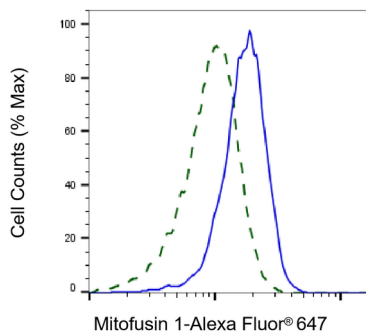
Western blotting analysis using mitofusin 1 antibody (KVA00730). Mitofusin 1 expression in wild-type (WT) and mitofusin 1 (MFN1) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with mitofusin 1 antibody (KVA00730, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



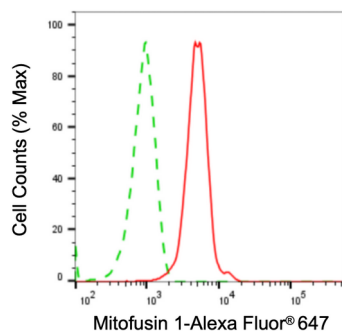
Western blotting analysis using mitofusin 1 antibody (KVA00730). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with mitofusin 1 antibody (KVA00730, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of C2C12 cells with Mitofusin 1 antibody (KVA00730, 1:1,000). Nuclei were stained blue with DAPI; Mitofusin 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and Smart Gain: Medium. Scale bar, 20 µm.



Validation of Mitofusin 1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Mitofusin 1 antibody (KVA00730, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of mitofusin 1 expression in C2C12 cells using mitofusin 1 antibody (KVA00730, 1:2,000). Green, isotype control; red, mitofusin 1.

