

Anti-Mitofusin 2 Antibody [JE59-66]

HA720073



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB
Molecular Wt:	Predicted band size: 86 kDa
Clone number:	JE59-66

Description: Mitochondrial outer membrane GTPase that mediates mitochondrial clustering and fusion. Mitochondria are highly dynamic organelles, and their morphology is determined by the equilibrium between mitochondrial fusion and fission events. Overexpression induces the formation of mitochondrial networks. Membrane clustering requires GTPase activity and may involve a major rearrangement of the coiled coil domains. Plays a central role in mitochondrial metabolism and may be associated with obesity and/or apoptosis processes. Plays an important role in the regulation of vascular smooth muscle cell proliferation. Involved in the clearance of damaged mitochondria via selective autophagy (mitophagy). Is required for PRKN recruitment to dysfunctional mitochondria. Involved in the control of unfolded protein response (UPR) upon ER stress including activation of apoptosis and autophagy during ER stress. Acts as an upstream regulator of EIF2AK3 and suppresses EIF2AK3 activation under basal conditions.

Immunogen: Synthetic peptide within human Mitofusin 2 aa 51-100/757.

Positive control: HeLa cell lysate, HEK-293 cell lysate, HCT 116 cell lysate, Mouse brain tissue lysate, HepG2 cell lysate, Mouse liver tissue lysate, Rat brain tissue lysate, Rat liver tissue lysate.

Subcellular location: Mitochondrion outer membrane.

Database links: SwissProt: O95140 Human | Q80U63 Mouse | Q8R500 Rat

Recommended Dilutions:

WB 1:500-1:2,000

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

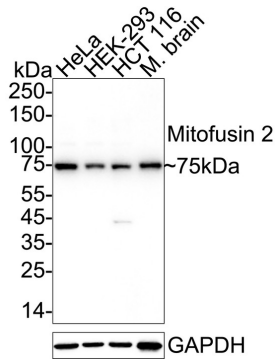
Technical:0086-571-89986345

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Images

Fig1: Western blot analysis of Mitofusin 2 on different lysates with Rabbit anti-Mitofusin 2 antibody (HA720073) at 1/1,000 dilution.



Lane 1: HeLa cell lysate (20 µg/Lane)
 Lane 2: HEK-293 cell lysate (20 µg/Lane)
 Lane 3: HCT 116 cell lysate (20 µg/Lane)
 Lane 4: Mouse brain tissue lysate (40 µg/Lane)

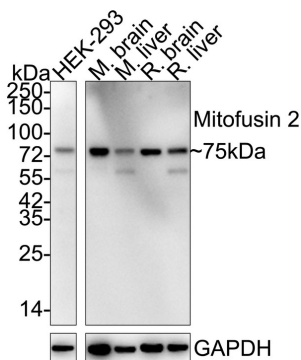
Predicted band size: 86 kDa
 Observed band size: 75 kDa

Exposure time: 30 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA720073) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Western blot analysis of Mitofusin 2 on different lysates with Rabbit anti-Mitofusin 2 antibody (HA720073) at 1/1,000 dilution.



Lane 1: HepG2 cell lysate (10 µg/Lane)
 Lane 2: Mouse brain tissue lysate (20 µg/Lane)
 Lane 3: Mouse liver tissue lysate (20 µg/Lane)
 Lane 4: Rat brain tissue lysate (20 µg/Lane)
 Lane 5: Rat liver tissue lysate (20 µg/Lane)

Predicted band size: 86 kDa
 Observed band size: 75 kDa

Exposure time: 1 minute 21 seconds; ECL: K1802;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA720073) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Hu Y. et. al. The AMPK-MFN2 axis regulates MAM dynamics and autophagy induced by energy stresses. *Autophagy*. 2020 Apr
2. Rocha AG. et. al. MFN2 agonists reverse mitochondrial defects in preclinical models of Charcot-Marie-Tooth disease type 2A. *Science*. 2018 Apr

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