

## Anti-Mitofusin 2 Antibody (2W683)

## Product Details

Ig Type:	IgG2a
Reactivity:	Human,Mouse
Molecular Weight:	Theoretical: 83 kDa. Actual: 76 kDa.
Clone:	2W683
Purification:	Protein A purified

## Applications

Verified Activity:	1. Blocking buffer: 5% NFDm/TBST
	Primary ab dilution: 1:1000
	Primary ab incubation condition: 2 hours at room temperature
	Lysate: HepG2, Neuro-2a, EL4.IL-2
	Protein loading quantity: 20 µg
	Exposure time: 60 S
	Predicted MW: 86 kDa
	Observed MW: 86 kDa
	2. Sample:
	Lane 1: Mouse NIH/3T3 cell lysates
Lane 2: Human HeLa cell lysates	
Lane 3: Human HepG2 cell lysates	
Primary: Anti-Mitofusin 2 (TMAB-08836) at 1/1000 dilution	
Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution	
Predicted band size: 83 kDa	
Observed band size: 76 kDa	
Application:	WB
Recommended	WB: 1:500-1000

## Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human Mitofusin 2
Antigen Species:	Human
Gene ID:	9927
Uniprot ID:	O95140

## Research Background

This gene encodes a mitochondrial membrane protein that participates in mitochondrial fusion and contributes to the maintenance and operation of the mitochondrial network. This protein is involved in the regulation of vascular

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smooth muscle cell proliferation, and it may play a role in the pathophysiology of obesity. Mutations in this gene cause Charcot-Marie-Tooth disease type 2A2, and hereditary motor and sensory neuropathy VI, which are both disorders of the peripheral nervous system. Defects in this gene have also been associated with early-onset stroke. Two transcript variants encoding the same protein have been identified. [provided by RefSeq, Jul 2008].

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