

Product datasheet

Anti-Mitofusin 2 antibody ab50843

★★★★☆ 5 Abreviews 3 References 画像数 2

製品の概要

製品名	Anti-Mitofusin 2 antibody
製品の詳細	Rabbit polyclonal to Mitofusin 2
由来種	Rabbit
アプリケーション	適用あり: ICC/IF, WB, IP
種交差性	交差種: Mouse, Rat, Human 交差が予測される動物種: Cynomolgus monkey, Orangutan
免疫原	Synthetic peptide corresponding to Human Mitofusin 2 aa 557-576 conjugated to Keyhole Limpet Haemocyanin (KLH). Sequence: C-LGPKNSRRALMGYNDQVQRP Run BLAST with Run BLAST with
ポジティブ・コントロール	Mouse brain mitochondrial extract; rat brain mitochondrial extract; HeLa cell lysate

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
バッファー	pH: 7.40 Preservative: 0.097% Sodium azide Constituent: 0.0268% PBS
精製度	Immunogen affinity purified
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab50843** in the following tested applications.

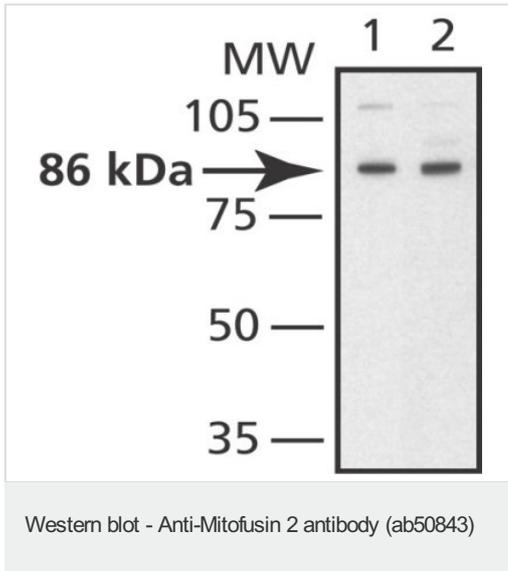
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
ICC/IF	★★★★★	1/200.
WB	★★★★☆	Use a concentration of 0.5 - 1 µg/ml. Detects a band of approximately 86 kDa (predicted molecular weight: 84 kDa).
IP	★★★★★	Use at 5-10 µg/mg of lysate. (using HeLa cell lysate)

ターゲット情報

機能	Essential transmembrane GTPase, which mediates mitochondrial fusion. Fusion of mitochondria occurs in many cell types and constitutes an important step in mitochondria morphology, which is balanced between fusion and fission. MFN2 acts independently of the cytoskeleton. It therefore plays a central role in mitochondrial metabolism and may be associated with obesity and/or apoptosis processes. Overexpression induces the formation of mitochondrial networks. 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 PARK2 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.
組織特異性	Ubiquitous; expressed at low level. Highly expressed in heart and kidney.
関連疾患	Charcot-Marie-Tooth disease 2A2 Neuropathy, hereditary motor and sensory, 6A
配列類似性	Belongs to the TRAFAC class dynamin-like GTPase superfamily. Dynamin/Fzo/YdjA family. Mitofusin subfamily. Contains 1 dynamin-type G (guanine nucleotide-binding) domain.
翻訳後修飾	Phosphorylated by PINK1. Ubiquitinated by non-degradative ubiquitin by PARK2, promoting mitochondrial fusion; deubiquitination by USP30 inhibits mitochondrial fusion.
細胞内局在	Mitochondrion outer membrane. Colocalizes with BAX during apoptosis.

画像



All lanes : Anti-Mitofusin 2 antibody (ab50843) at 0.25 µg/ml

Lane 1 : Rat brain mitochondria

Lane 2 : Mouse brain mitochondria

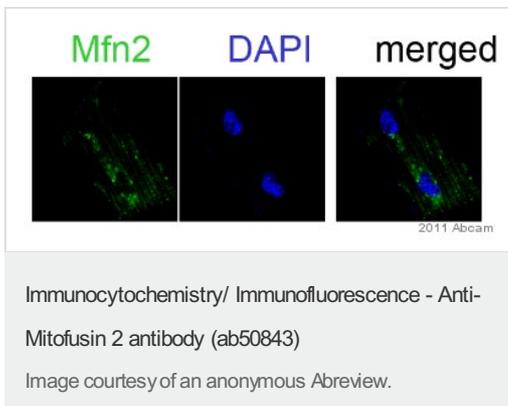
Secondary

All lanes : Goat Anti-Rabbit IgG, Peroxidase conjugate and a chemiluminescent substrate.

Predicted band size: 84 kDa

Observed band size: 86 kDa

[why is the actual band size different from the predicted?](#)



ab50843 staining Mitofusin 2 in murine cardiac myocyte cells by Immunocytochemistry/ Immunofluorescence.

Cells were fixed in formaldehyde, permeabilized using 1% Triton X-100, blocked with 10% serum for 1 hour at room temperature, then incubated with ab50843 at a 1/200 dilution for 1 hour. The secondary used was an Alexa-Fluor 488 conjugated goat anti-rabbit polyclonal used at a 1/500 dilution.

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