

# AB-NN290-1

## Mitofusin 2 Antibody

Pan-specific monoclonal antibody (S153-5) for monitoring the expression of human Mitofusin 2



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### Target Protein

<b>Name Long:</b>	Mitofusin-2
<b>Alias:</b>	CMT2A, CMT2A2, CPRP 1, CPRP1, Fzo, HSG, hyperplasia suppressor gene, Hypertension related protein 1, KIAA0214, MARF, MFN 2, Mfn2, Mitochondrial assembly regulatory factor, Mitofusin-2, Mitofusin2, Transmembrane GTPase MFN2
<b>UniProt ID:</b>	Q80U63 - Mouse
<b>Human Predicted Mass (KDa):</b>	86.402 (757 AA; O95140-1); 50.041 (436 AA; O95140-2)
<b>Observed SDS-PAGE Mass (KDa):</b>	90

### Immunogen

<b>Antibody Immunogen Source:</b>	Fusion protein amino acids 370-600 (cytoplasmic N-terminus) of mouse Mitofusin-2. Rat: 97% identity (226/231 amino acids identical). Human: 92% identity (214/231 amino acids identical) ~55% identity with Mitofusin-1.
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### Production

<b>Antibody Host Species:</b>	Mouse
<b>Antibody Type:</b>	Monoclonal
<b>Antibody Ig Isotype Clone Lot:</b>	IgG2a
<b>Antibody Purification:</b>	Protein G purified
<b>Amount:</b>	25 µg
<b>Antibody Concentration:</b>	1 mg/ml
<b>Lot Number:</b>	15DE1
<b>Storage Buffer:</b>	Phosphate buffered saline pH 7.4, 50% glycerol, 0.1% sodium azide
<b>Storage Conditions and Stability:</b>	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles. For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.

### Applications

<b>Product Use:</b>	WB   IHC   ICC/IF
<b>Antibody Dilution Recommended:</b>	WB (1:1000); optimal dilutions for assays should be determined by the user.
<b>Antibody Species Reactivity:</b>	Mouse   Rat
<b>Antibody Positive Control:</b>	1 µg/ml of SMC-457 was sufficient for detection of Mitofusin-2 in 20 µg of mouse cardiac mitochondrial lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.
<b>Target Detection Immunoblotting:</b>	In mouse brain lysates, this antibody detects a ~90 kDa protein.
<b>Antibody Specificity:</b>	Very High
<b>Antibody Cross Reactivities:</b>	No cross-reactivity against Mitofusin-1. One weak ~70 KDa cross-reactive protein in mouse brain lysates.

This product is for in vitro research use only and is not intended for use in humans or animals.

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