

## Mitofusin-2 Monoclonal Antibody

### ORDERING INFORMATION

**Catalog no.:** 56557 (clone S153-5)

**Format:** 100ug (1mg/ml) Protein G-purified antibody in PBS, pH 7.4, 0.1% sodium azide, 50% glycerol.

### BACKGROUND

Mitofusin-2 (Mfn2) is 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 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, both of which are 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.

### SPECIFICATION SUMMARY

**Antigen:** Fusion protein corresponding to aa 370-600 (cytoplasmic N-terminus) of mouse Mitofusin-2. This sequence is 97% identical to rat, 92% identical to human, and ~55% identical to Mitofusin-1.

**Accession nos.:** NP\_573464.2, Q80U63

**Gene Id:** 170731

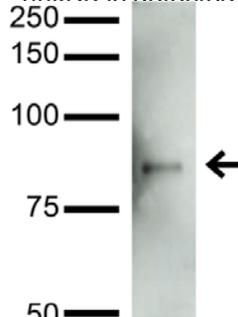
**Host Species:** Mouse

**Antibody Class:** IgG2a

**Specificity:** This antibody recognizes human, mouse, and rat Mitofusin-2. It does not cross-react with Mitofusin-1.

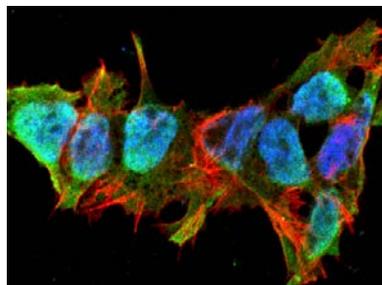
### APPLICATIONS

**Immunoblotting:** use at 1-5ug/ml. A band of ~90kDa is detected



Detection of Mitofusin-2 in rat brain lysate with #56557 at 5ug/ml.

**Immunofluorescence:** use at 10ug/ml.



Detection of Mitofusin-2 in neuroblastoma cell line SK-N-BE with #56557 at 10ug/ml: DAPI (blue) nuclear stain, Texas Red F actin stain, ATTO 488 (green) Mitofusin-2 stain.

These are recommended concentrations. Enduser should determine optimal concentrations for their application.

### DILUTION INSTRUCTIONS

Dilute in PBS or medium that is identical to that used in the assay system.

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### STORAGE AND STABILITY

This product is stable for at least one (1) year at -20°C.

*For in vitro investigational use only. Not intended for therapeutic or diagnostic procedures.*