

## PRODUCT DATA SHEET

**Product:** Anti-Dystrophin mAb, clone 1808

**Cat. No.:** MC-087 (400 µg)

**Background:**

Monoclonal antibody recognizes the 427 kDa dystrophin protein.

Dystrophin is a member of the spectrin/ $\alpha$ -actinin family of actin binding, triple helix rod-containing proteins. It is absent or greatly reduced in humans with the X-linked recessive Duchenne's muscular dystrophy disorder and in mice with murine muscular dystrophy (mdx mutation).

**Specificity:**

Reacts with dystrophin. Does not cross-react with C-protein,  $\alpha$ -actin, or human muscle spectrin.

**Epitope:**

Not determined

**Positive Control:**

Skeletal muscle

**Species Reactivity:**

Recognizes dystrophin in human. Other species not tested.

**Cellular Localization:**

Cell membrane

**Ig Isotype:**

Mouse IgG<sub>1</sub>

**Immunogen:**

Acetylcholine receptor (AChR)-enriched membranes and peripheral membrane proteins from *Torpedo nobiliana* electric organ.

**Molecular Weight of Antigen:**

427 kDa

**Format:**

0.5 mL of 800 µg/mL monoclonal antibody in 10 mM PBS, pH 7.4, with 0.09% sodium azide and protein stabilizer. Purified from ascites fluid by Protein G chromatography.

**Storage:**

Store at 4 °C.

**Applications and Suggested Dilutions:**

- Immunofluorescence
- Affinity Purification
- Electron Microscopy
- Immunohistochemistry: (Formalin/paraffin)  
Use at 1:50 to 1:100 for 30 min. at RT. Staining of formalin-fixed tissues REQUIRES boiling tissue sections in 1 mM EDTA, pH 8.0, for 10-20 min. followed by cooling to room temp. for 20 min. (Note: 1 mM EDTA, pH 8.0 is better than 10 mM citrate buffer, pH 6.0 for unmasking the epitope.)

The optimal dilution for a specific application should be determined by the researcher.



Figure: Formalin-fixed, paraffin embedded skeletal muscle stained with MC-087.

**Limitations:**

For *in vitro* research use only. Not for use in diagnostics or in humans.

**Warranty:**

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.