

Mouse Anti-Utrophin [8A4]: MC0393, MC0393RTU7

Intended Use: For Research Use Only

Description: Dystrophin and utrophin are related structural, Actin-binding proteins that are involved in anchoring the cytoskeleton to the plasma membrane. Dystrophin is the protein product of the Duchenne/Becker muscular dystrophy gene. Dystrophin expression is found in muscle and brain tissues, where it is localized to the inner surface of the plasma membrane. It has been speculated that alternative splicing of the carboxy terminus allows dystrophin to interact with a variety of proteins. Research has shown that the loss of dystrophin-associated proteins in Duchenne afflicted muscle is due to the absence of dystrophin rather than to muscle degradation and that the lack of dystrophin results in the loss of linkage between the cytoskeleton and the extracellular matrix. Evidence suggests that the upregulation of utrophin can reduce the dystrophic pathology.

Specifications:

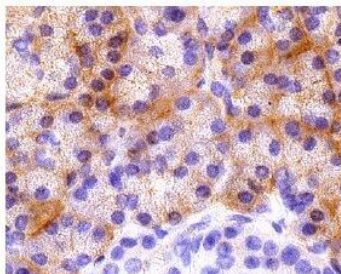
Clone: 8A4
 Source: Mouse
 Isotype: IgG1k
 Reactivity: Human, mouse, rat
 Immunogen: Recombinant fragment of human utrophin
 Localization: Membrane
 Formulation: Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC, IF, IP, WB
 Package:

Description	Catalog No.	Size
Utrophin Concentrated	MC0393	1 ml
Utrophin Prediluted	MC0393RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Prostate, kidney and stomach
 Concentrated Dilution: 50-200
 Pretreatment: Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human pancreas tissue stained with anti-Utrophin using DAB

References:

1. High-throughput identification of post-transcriptional utrophin up-regulators for Duchenne muscle dystrophy (DMD) therapy. Emanuele Loro, et al. Nature - Scientific Reports volume 10, Article number: 2132, 2020.
2. Utrophin: A Structural and Functional Comparison to Dystrophin. D J Blake, et al. Brain Pathol. Jan;6(1):37-47, 1996.

Doc. 100-MC0393
Rev. A