

Mouse Anti-Emerin [EMD/2168]: MC0359, MC0359RTU7

Intended Use: For Research Use Only

Description: Emerin is a member of the nuclear lamina associated protein family. It is ubiquitously expressed and localized to the nuclear membrane in normal cells. Mutations of the gene that encodes emerin result in the X-linked recessive disease Emery-Dreifuss muscular dystrophy (EDMD), which is characterized by slowly progressing contractures, skeletal muscle wasting and cardiomyopathy. Reportedly, lack of Emerin expression is one cause of EDMD. Emerin is involved in the association of the nuclear membrane with the lamina, and is localized specifically to desmosomes and fasciae adherents in the heart. Identification of nuclear membrane irregularities with anti-emerin antibody has been reported useful in diagnosing papillary thyroid carcinoma.

Specifications

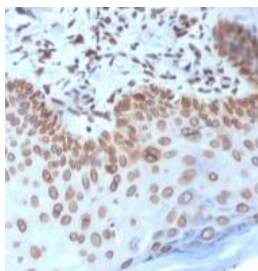
Clone: EMD/2168
 Source: Mouse
 Isotype: IgG2b/k
 Reactivity: Human
 Localization: Nuclear membrane
 Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC, WB
 Package:

Description	Catalog No.	Size
Emerin [EMD/2168] Concentrated	MC0359	1 ml
Emerin [EMD/2168] Prediluted	MC0359RTU7	7 ml

IHC Procedure*

Positive Control Tissue: Kidney, skin, K-562, HeLa or Jurkat cells
 Concentrated Dilution: 50-200
 Pretreatment: Citrate pH6.0 or EDTA pH8.0, 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 breast cancer stained with anti-Emerin using DAB

References:

- Efficient protein targeting to the inner nuclear membrane requires Atlastin-dependent maintenance of ER topology. Pawar S, et al. *Elife* 6:N/A, 2017.
- Differential basal-to-apical accessibility of lamin A/C epitopes in the nuclear lamina regulated by changes in cytoskeletal tension. Ihalainen TO, et al. *Nat Mater* 14:1252-1261, 2015.
- Nuclear actin filaments recruit cofilin and actin-related protein 3, and their formation is connected with a mitotic block. Kalendová A, et al. *Histochem Cell Biol* 142:139-52, 2014.
- Identification of a novel X-linked gene responsible for Emery-Dreifuss muscular dystrophy. Bione, S., et al. *Nat. Genet.* 8: 323-327, 1994.

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Rev. A