

## Emerin (Papillary Thyroid Carcinoma and EDMD Marker) Antibody

Mouse Monoclonal Antibody [Clone EMD/2167]

Catalog No	Format	Size
2010-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
2010-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
2010-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

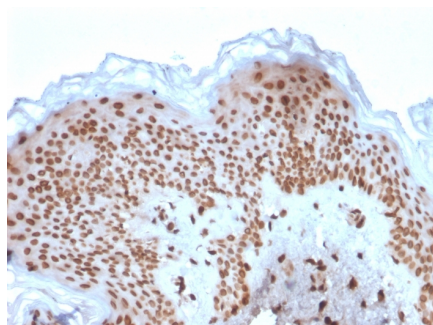
Applications	Tested Dillution	Note
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

### Product Details

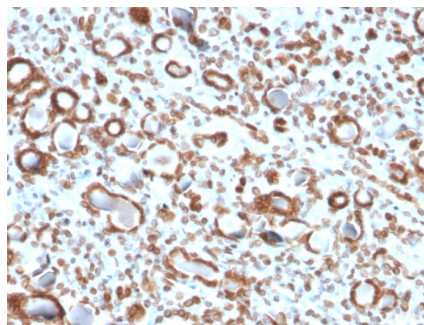
<b>Clone</b>	EMD/2167
<b>Gene Name</b>	EMD
<b>Immunogen</b>	Recombinant human Emerin protein fragment (around aa 56-167) (exact sequence is proprietary)
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG1 / Kappa
<b>Mol. Weight of Antigen</b>	37kDa
<b>Cellular Localization</b>	Nucleus inner membrane, Nucleus outer membrane
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	HeLa or Jurkat cells. Kidney or Skin., K-562

\*Optimal dilution for a specific application should be determined.

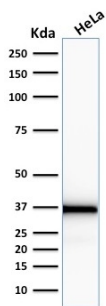
### Product Images for Emerin (Papillary Thyroid Carcinoma and EDMD Marker) Antibody



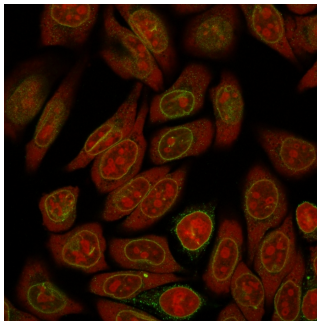
Formalin-fixed, paraffin-embedded human Basal Cell Carcinoma stained with Emerin Mouse Monoclonal Antibody (EMD/2167).



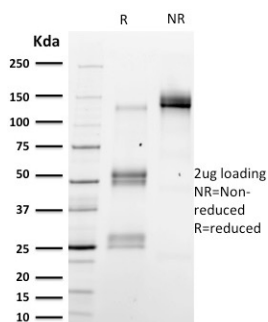
Formalin-fixed, paraffin-embedded human Renal Cell Carcinoma stained with Emerin Mouse Monoclonal Antibody (EMD/2167).



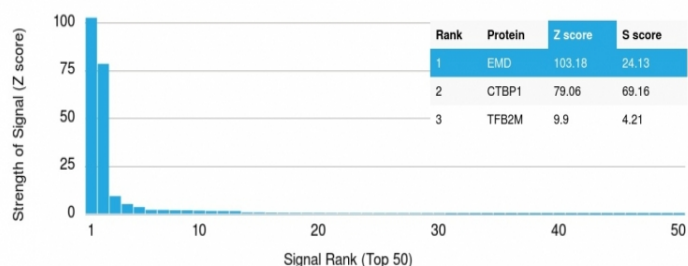
Western Blot Analysis of human HeLa cell lysate using Emerin Mouse Monoclonal Antibody (EMD/2167).



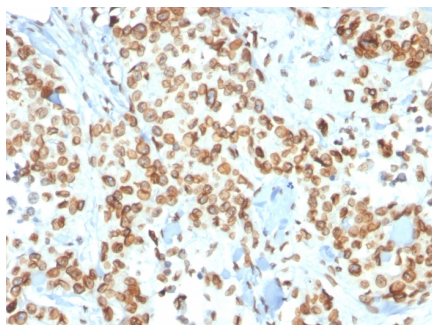
Immunofluorescence Analysis of Human HeLa cells labeling Emerin with Emerin Mouse Monoclonal Antibody (EMD/2167) followed by Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Reddot (Red)



SDS-PAGE Analysis Purified Emerin Mouse Monoclonal Antibody (EMD/2167). Confirmation of Integrity and Purity of Antibody



Analysis of Protein Array containing more than 19,000 full-length human proteins using Mouse Emerin Monoclonal Antibody (EMD/2167) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with Emerin Mouse Monoclonal Antibody (EMD/2167).

**Specificity & Comments**

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.

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**Limitations and Warranty**

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

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**Supplied As**

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

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**Storage and Stability**

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

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**Research Areas**

Cardiovascular, Nuclear Marker, Signal Transduction

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