

### 36-2211: Anti-Emerin (Papillary Thyroid Carcinoma and EDMD Marker) Monoclonal Antibody (Clone: EMD/2168)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	EMD/2168
<b>Application :</b>	WB, IHC
<b>Reactivity :</b>	Human
<b>Gene :</b>	EMD
<b>Gene ID :</b>	2010
<b>Uniprot ID :</b>	P50402
<b>Alternative Name :</b>	EMD; Emerin; Emery Dreifuss muscular dystrophy (EDMD); STA
<b>Isotype :</b>	Mouse IgG2b, kappa
<b>Immunogen Information :</b>	Recombinant human Emerin protein fragment (around aa 56-167) (exact sequence is proprietary)

#### 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.

#### Product Info

<b>Amount :</b>	20 µg / 100 µg
<b>Content :</b>	200 µg/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.
<b>Storage condition :</b>	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.

#### Application Note

Western Blot (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 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);

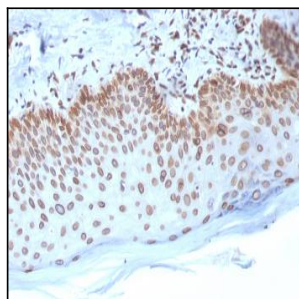


Fig. 1: Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with Emerin Mouse Monoclonal Antibody (EMD/2168).

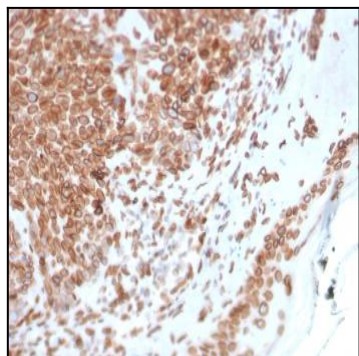


Fig. 2: Formalin-fixed, paraffin-embedded human Basal Cell Carcinoma stained with Emerin Mouse Monoclonal Antibody (EMD/2168).

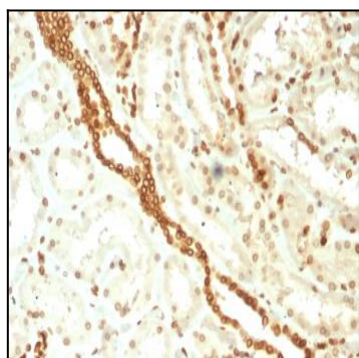


Fig. 3: Formalin-fixed, paraffin-embedded human Renal Cell Carcinoma stained with Emerin Mouse Monoclonal Antibody (EMD/2168).

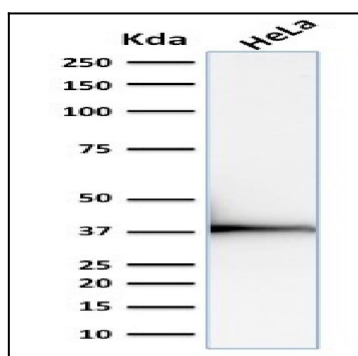


Fig. 4: Western Blot Analysis of human HeLa cell lysate using Emerin Mouse Monoclonal Antibody (EMD/2168).

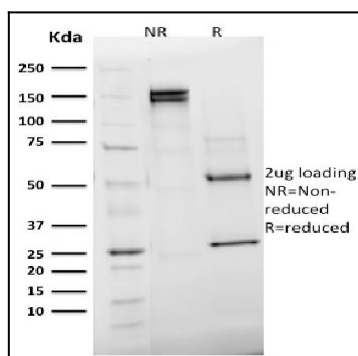


Fig. 5: SDS-PAGE Analysis Purified Emerin Mouse Monoclonal Antibody (EMD/2168). Confirmation of Integrity and Purity of Antibody.

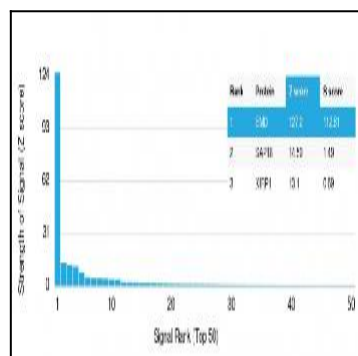


Fig. 6: Analysis of Protein Array containing more than 19,000 full-length human proteins using Mouse Emerin Monoclonal Antibody (EMD/2168) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) 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.