

# Anti-Human Emerin DyLight® 488 conjugated EMD Antibody(monoclonal, 5A10)

Catalog # ABO14793

## Product Information

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| <b>Application</b>       | FC                                                                                                                                                  |
| <b>Primary Accession</b> | <a href="#">P50402</a>                                                                                                                              |
| <b>Host</b>              | Mouse                                                                                                                                               |
| <b>Isotype</b>           | Mouse IgG1                                                                                                                                          |
| <b>Reactivity</b>        | Human                                                                                                                                               |
| <b>Clonality</b>         | Monoclonal                                                                                                                                          |
| <b>Format</b>            | Liquid                                                                                                                                              |
| <b>Description</b>       | Anti-Human Emerin DyLight® 488 conjugated EMD Antibody (monoclonal, 5A10) . Tested in Flow Cytometry applications. This antibody reacts with Human. |

## Additional Information

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| <b>Gene ID</b>                  | 2010                                                                                                                                                                                                      |
| <b>Other Names</b>              | Emerin, EMD, EDMD, STA                                                                                                                                                                                    |
| <b>Calculated MW</b>            | 28994                                                                                                                                                                                                     |
| <b>Application Details</b>      | Flow Cytometry, 1-3 $\mu$ g/1x10 <sup>6</sup> cells                                                                                                                                                       |
| <b>Subcellular Localization</b> | Nucleus inner membrane.                                                                                                                                                                                   |
| <b>Tissue Specificity</b>       | Skeletal muscle, heart, colon, testis, ovary and pancreas.                                                                                                                                                |
| <b>Source</b>                   | Eukaryota                                                                                                                                                                                                 |
| <b>Contents</b>                 | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .                                                                                              |
| <b>Clone Names</b>              | Clone: 5A10                                                                                                                                                                                               |
| <b>Immunogen</b>                | A synthetic peptide corresponding to a sequence at the N-terminus of human Emerin, different from the related mouse sequence by eight amino acids, and from the related rat sequence by nine amino acids. |
| <b>Cross Reactivity</b>         | No cross-reactivity with other proteins.                                                                                                                                                                  |
| <b>Storage</b>                  | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.                                                                                                      |

## Protein Information

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| <b>Name</b>              | EMD ( <a href="#">HGNC:3331</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Function</b>          | Stabilizes and promotes the formation of a nuclear actin cortical network. Stimulates actin polymerization in vitro by binding and stabilizing the pointed end of growing filaments (PubMed: <a href="#">15328537</a> ). Inhibits beta-catenin activity by preventing its accumulation in the nucleus. Acts by influencing the nuclear accumulation of beta-catenin through a CRM1-dependent export pathway (PubMed: <a href="#">16858403</a> ). Links centrosomes to the nuclear envelope via a microtubule association (PubMed: <a href="#">17785515</a> ). Required for proper localization of non-farnesylated prelamin-A/C (PubMed: <a href="#">19323649</a> ). Together with NEMP1, contributes to nuclear envelope stiffness in germ cells (PubMed: <a href="#">32923640</a> ). EMD and BAF are cooperative cofactors of HIV-1 infection. Association of EMD with the viral DNA requires the presence of BAF and viral integrase. The association of viral DNA with chromatin requires the presence of BAF and EMD. |
| <b>Cellular Location</b> | Nucleus inner membrane; Single-pass membrane protein; Nucleoplasmic side. Nucleus outer membrane. Note=Colocalized with BANF1 at the central region of the assembling nuclear rim, near spindle-attachment sites. The accumulation of different intermediates of prelamin-A/C (non-farnesylated or carboxymethylated farnesylated prelamin-A/C) in fibroblasts modify its localization in the nucleus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Tissue Location</b>   | Skeletal muscle, heart, colon, testis, ovary and pancreas                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.