

**EMD Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP6525b****Specification**

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**EMD Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [P50402](#)**EMD Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 2010**Other Names**

Emerin, EMD, EDMD, STA

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP6525b](/products/AP6525b) was selected from the C-term region of human EMD. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**EMD Antibody (C-term) Blocking Peptide - Protein Information****Name** EMD**Synonyms** EDMD, STA**Function**

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. 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. Links centrosomes to the nuclear envelope via a microtubule association. Required for proper localization of non- farnesylated prelamin-A/C. Together with NEMP1, contributes to nuclear envelope stiffness in germ cells (PubMed:<http://www.uniprot.org/citations/32923640> target="\_blank">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.

**Cellular Location**

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

**Tissue Location**

Skeletal muscle, heart, colon, testis, ovary and pancreas

**EMD Antibody (C-term) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**EMD Antibody (C-term) Blocking Peptide - Images****EMD Antibody (C-term) Blocking Peptide - Background**

Emerin is a serine-rich nuclear membrane protein and a member of the nuclear lamina-associated protein family. It mediates membrane anchorage to the cytoskeleton. Dreifuss-Emery muscular dystrophy is an X-linked inherited degenerative myopathy resulting from mutation in the emerin gene.

**EMD Antibody (C-term) Blocking Peptide - References**

Asioli,S., Histopathology 54 (5), 571-579 (2009)Tilgner,K., J. Cell. Sci. 122 (PT 3), 401-413 (2009)