10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Emerin Antibody

Rabbit mAb
Catalog # AP91460

Product Information

Application	WB, IHC, IF, ICC, IHF
Primary Accession	P50402
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	EDMD; Emd; Emerin; Emery Dreifuss muscular dystrophy; STA;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	28994

Additional Information

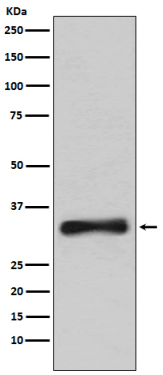
Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Emerin
Description	Emerin may regulate gene expression through binding to other transcriptional regulators. Emerin binds to β-catenin and inhibits its nuclear accumulation. Recent studies demonstrate that Emerin is required for HIV-1 infectivity.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

Name	EMD (HGNC:3331)
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 (PubMed:15328537). 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:16858403). Links centrosomes to the nuclear envelope via a microtubule association (PubMed:17785515). Required for proper localization of non-farnesylated prelamin-A/C (PubMed:19323649). Together with NEMP1, contributes to nuclear envelope stiffness in germ cells (PubMed:32923640). 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

Images



Western blot analysis of Emerin expression in 293T cell lysate.

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