abcam

Product datasheet

Anti-Emerin antibody [MANEM1(5D10)] ab125932

2 Images

Overview

Product name	Anti-Emerin antibody [MANEM1(5D10)]
Description	Mouse monoclonal [MANEM1(5D10)] to Emerin
Host species	Mouse
Tested applications	**Suitable for:** ICC/IF, WB
Species reactivity	**Reacts with:** Rabbit, Human **Does not react with:** Mouse
Immunogen	Recombinant fragment of Emerin amino acids 1-188(Human)
Positive control	Human fibroblast cells and cell extracts.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.1% Sodium azide Constituent: 99% PBS
Purity	Protein G purified
Clonality	Monoclonal
Clone number	MANEM1(5D10)
Myeloma	Sp2/0
Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab125932 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

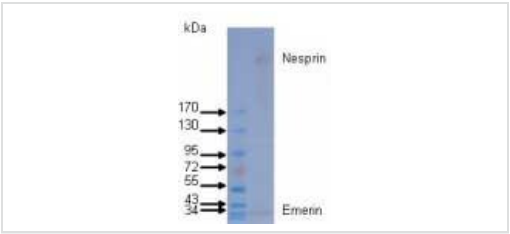
Application	Abreviews	Notes
ICC/IF		1/4 - 1/10.

Application	Abreviews	Notes
WB		1/400 - 1/800. Predicted molecular weight: 29 kDa.

Target

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. 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. Required for proper localization of non-farnesylated prelamin-A/C.
Tissue specificity	Skeletal muscle, heart, colon, testis, ovary and pancreas.
Involvement in disease	Defects in EMD are the cause of Emery-Dreifuss muscular dystrophy type 1 (EDMD1) [MIM:310300]. A degenerative myopathy characterized by weakness and atrophy of muscle without involvement of the nervous system, early contractures of the elbows Achilles tendons and spine, and cardiomyopathy associated with cardiac conduction defects.
Sequence similarities	Contains 1 LEM domain.
Post-translational modifications	Found in four different phosphorylated forms, three of which appear to be associated with the cell cycle.
Cellular localization	Nucleus inner membrane. Nucleus outer membrane. 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.

Images

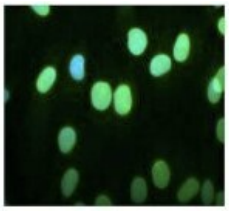


Western blot - Anti-Emerin antibody [MANEM1(5D10)] (ab125932)

Anti-Emerin antibody [MANEM1(5D10)] (ab125932) at 1/400 dilution + Normal Human fibroblast extracts

Predicted band size: 29 kDa

3-15% SDS-PAGE.



Immunocytochemistry/ Immunofluorescence - Anti-Emerin antibody [MANEM1(5D10)] (ab125932)

ab125932 at 1/4 dilution staining Emerin in Human fibroblasts by Immunofluorescence. DAPI counterstaining.

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