

Product datasheet

Recombinant Human Emerin protein ab112283

[1 Image](#)

Description

Product name	Recombinant Human Emerin protein
Biological activity	useful for Antibody Production and Protein Array
Expression system	Wheat germ
Accession	<u>P50402</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Predicted molecular weight	54 kDa including tags
Amino acids	1 to 254

Specifications

Our **Abpromise guarantee** covers the use of **ab112283** in the following tested applications.

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

Applications	Western blot ELISA Peptide Array SDS-PAGE
Form	Liquid
Additional notes	This product is useful for Antibody Production and Protein Array.

Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl Reduced glutathione
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General Info

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.

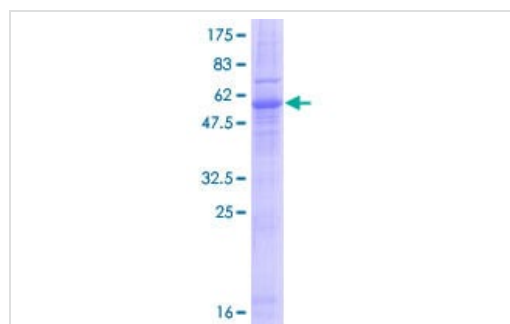
Post-translational modifications

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



SDS-PAGE - Recombinant Human Emerin protein
(ab112283)

12.5% SDS-PAGE Stained with Coomassie Blue with proprietary tag.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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