

## EMD

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**Reactivity:**Human

**Tested applications:**WB FC

**Recommended Dilution:**WB 1:500 - 1:2000 FC 1:20 - 1:50

**Calculated MW:**29kDa

**Observed MW:**Refer to Figures

**Immunogen:**

A synthetic peptide of human EMD

**Storage Buffer:**

Store at 4. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Synonym:**

EMD;EDMD;LEMD5;STA

**Catalog #:**A0116

**Antibody Type:**

Polyclonal Antibody

**Species:**Rabbit

**Gene ID:**2010

**Isotype:**IgG

**Swiss Prot:**P50402

**Purity:**Affinity purification

For research use only.

**Background:**

EMD is a broadly expressed integral protein of the nuclear inner membrane (1). It contains a LEM domain and binds to several nuclear proteins, such as BAF (barrier-to-autointegration factor) and A- and B-type lamins, which are important in nuclear functions (2-5). EMD may regulate gene expression through binding to other transcriptional regulators (6,7). EMD binds to  $\beta$ -catenin and inhibits its nuclear accumulation (8). Recent studies demonstrate that EMD is required for HIV-1 infectivity (9). Mutations in EMD are a major cause of Emery-Dreifuss muscular dystrophy (EDMD), a disorder characterized by progressive skeletal muscle weakening (10).

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