

EMD Antibody

Catalog No: #32172

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Description

Product Name	EMD Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB IHC IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of total EMD protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human EMD.
Target Name	EMD
Other Names	EMD; EDMD; LEMD5; STA;
Accession No.	Swiss-Prot:P50402NCBI Gene ID:2010
SDS-PAGE MW	29KD
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

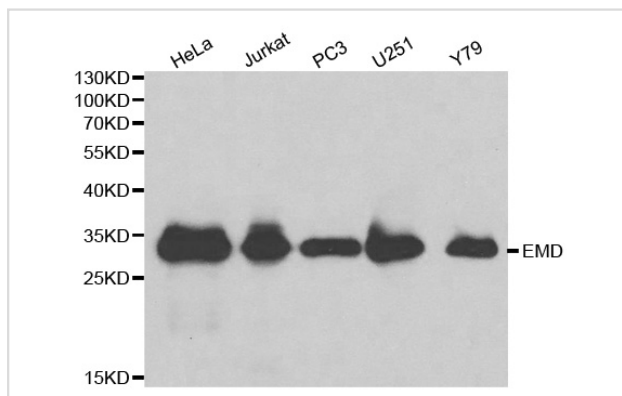
Application Details

Western blotting: 1:500 - 1:2000

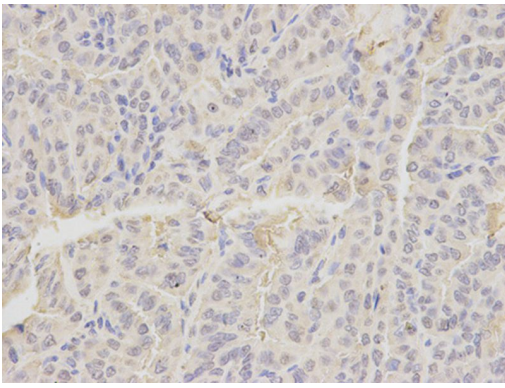
Immunohistochemistry: 1:50 - 1:100

Immunofluorescence: 1:20 - 1:100

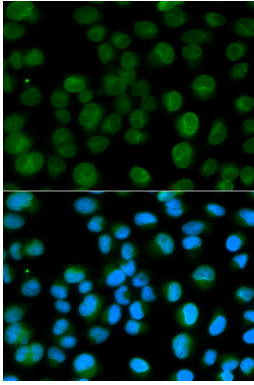
Images



Western blot analysis of extracts of various cell lines, using EMD antibody.



Immunohistochemical analysis of paraffin-embedded human thyroid cancer using EMD antibody at dilution of 1:200 (400x lens).



Immunofluorescence analysis of HeLa cell using EMD antibody. Blue: DAPI for nuclear staining.

Background

Emerin 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). Emerin may regulate gene expression through binding to other transcriptional regulators (6,7). Emerin binds to β -catenin and inhibits its nuclear accumulation (8). Recent studies demonstrate that Emerin is required for HIV-1 infectivity (9). Mutations in Emerin are a major cause of Emery-Dreifuss muscular dystrophy (EDMD), a disorder characterized by progressive skeletal muscle weakening (10).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.