



11-563-C025

Monoclonal Antibody to Lamin C Purified Antibody (0.025 mg)

Clone:	EM-11
Isotype:	Mouse IgG2a
Specificity:	The mouse monoclonal antibody EM-11 recognizes lamin C, intermediate filament protein of nuclear lamina.
Regulatory Status:	RUO
Species Reactivity:	Human, Mouse, Other not determined
Application:	Immunoprecipitation Western Blotting Immunocytochemistry Application note: Paraformaldehyde fixation possible.
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified by protein-A affinity chromatography
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration:	See vial label
Lot Number:	See vial label
Background:	Lamin C is intermediate filament protein localized to the inner nuclear membrane. It is expressed predominantly in terminally differentiated cells and defines the shape and stability of nuclei in mammalian cells. Besides their structural roles, lamin proteins also regulate fundamental aspects of nuclear function and they cross-talk with cell signaling cascades and cell metabolism. Mutations of LMNA gene, encoding lamin A and C proteins, are often associated with pathogenesis of respective cell types, such as of heart myocytes.

For laboratory research only, not for drug, diagnostic or other use.



Antibodies

References:

*Mounkes LC, Burke B, Stewart CL: The A-type lamins: nuclear structural proteins as a focus for muscular dystrophy and cardiovascular diseases. *Trends Cardiovasc Med.* 2001 Oct;11(7):280-5.

*Saga A, Karibe A, Otomo J, Iwabuchi K, Takahashi T, Kanno H, Kikuchi J, Keitoku M, Shinozaki T, Shimokawa H: Lamin A/C gene mutations in familial cardiomyopathy with advanced atrioventricular block and arrhythmia. *Tohoku J Exp Med.* 2009 Aug;218(4):309-16.

*Chen S, Martin C, Maya-Mendoza A, Tang CW, Lovric J, Sims PF, Jackson DA: Reduced Expression of Lamin A/C Results in Modified Cell Signaling and Metabolism Coupled with Changes in Expression of Structural Proteins. *J Proteome Res.* 2009 Oct 15. [Epub ahead of print]

*Cortés R, Roselló-Lletí E, Rivera M, Martínez-Dolz L, Azorín I, Salvador A, Portolés M: The role of the nuclear lamins in the pathogenesis of heart failure in patients undergoing cardiac transplantation. *Transplant Proc.* 2009 Jul-Aug;41(6):2227-30.

*Shimi T, Kittisopikul M, Tran J, Goldman AE, Adam SA, Zheng Y, Jaqaman K, Goldman RD: Structural organization of nuclear lamins A, C, B1, and B2 revealed by superresolution microscopy. *Mol Biol Cell.* 2015 Nov 5;26(22):4075-86.

Unless indicated otherwise, all products are For Research Use Only and not for diagnostic or therapeutic use. Not for resale or transfer either as a stand-alone product or as a component of another product without written consent of EXBIO. EXBIO will not be held responsible for patent infringement or other violations that may occur with the use of our products. All orders are accepted subject to EXBIO's term and conditions which are available at www.exbio.cz.

For laboratory research only, not for drug, diagnostic or other use.

EXBIO Praha | Nad Safinou II 341 | 252 50 Vestec u Prahy | Czech Republic
Tel: +420 261 090 666 | Fax: +420 261 090 660 | orders@exbio.cz | www.exbio.cz