

Anti-Lamin A+C/LMNA Antibody Picoband® APC Conjugated

Catalog Number: PB9280-APC

About LMNA

Lamins are structural protein components of the nuclear lamina, a protein network underlying the inner nuclear membrane that determines nuclear shape and size. There are three types of lamins, A, B and C. The lamin A/C (LMNA) gene contains 12 exons. Alternative splicing within exon 10 gives rise to two different mRNAs that code for pre-lamin A and lamin C. Lamin A/C is mapped to 1q21.2-q21.3 and mutations in this gene cause a variety of human diseases including Emery-Dreifuss muscular dystrophy, dilated cardiomyopathy, and Hutchinson-Gilford progeria syndrome. Lamin A/C deficiency is thus associated with both defective nuclear mechanics and impaired mechanically activated gene transcription.

Overview

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| Product Name | Anti-Lamin A+C/LMNA Antibody Picoband® APC Conjugated |
| Reactive Species | Human, Mouse, Rat |
| Application | Recommended applications are based on the parent unconjugated antibody (Flow Cytometry, IF, IHC, ICC, WB). Customers may select suitable applications according to their experimental needs. |
| Clonality | Polyclonal |
| Formulation | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% NaN ₃ . |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light. |
| Host | Rabbit |
| Uniprot ID | P02545 |

Technical Details

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| Immunogen | E.coli-derived human Lamin A/C recombinant protein (Position: Y481-Y646). Human Lamin A/C shares 90% and 92% amino acid (aa) sequence identity with mouse and rat Lamin A/C, respectively. |
| Cross Reactivity | No cross-reactivity with other proteins |
| Isotype | Rabbit IgG |
| Form | Liquid |
| Concentration | 0.5 mg/mL |
| Purification | Immunogen affinity purified. |
| Conjugate | APC Excitation Wavelength: 633-647 nm Emission Wavelength: 660 nm |
| Suggested Dilutions | Optimal dilutions should be determined by end users. |

5 Publications Citing This Product

1. PubMed ID: 10.1016/j.prp.2014.11.008, Loss of lamin A but not lamin C expression in epithelial ovarian cancer cells is associated with metastasis and poor prognosis

2. PubMed ID: 33859765, Li D,Liu J,Yang C,Tian Y,Yin C,Hu L,Chen Z,Zhao F,Zhang R,Lu A,Zhang G,Qian A.Targeting long noncoding RNA PMIF facilitates osteoprogenitor cells migrating to bone formation surface to promote bone formation during aging.Theranostics.2021 Mar 20;11(11):5585-5604.doi:10.7150/thno.54477. PMID:33859765;PMCID:PMC8039942.

3. PubMed ID: 25240403, Liu J, Ma J, Wu Z, Li W, Zhang D, Han L, Wang F, Reindl Km, Wu E, Ma Q. BMC Cancer. 2014 Sep 20;14:686. Doi: 10.1186/1471-2407-14-686. Arginine Deiminase Augments The Chemosensitivity Of Argininosuccinate Synthetase-Deficient Pancreatic Cancer Cel...

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