

AP00082PU-N**Polyclonal Antibody to Lamin-A/C (LMNA) - Aff - Purified**

Alternate names:	70 kDa Lamin, LMN1, LMNA, Lamin A, Lamin A + C, Lamin-A/C, NY-REN-32, NYREN32, Nuclear Envelope Marker, Renal carcinoma antigen NY-REN-32
Quantity:	0.1 mg
Concentration:	0.2 mg/ml
Background:	Lamins are nuclear membrane structural components that are important in maintaining normal cell functions such as cell cycle control, DNA replication and chromatin organization. Lamin A is specifically cleaved by caspase-6 and therefore serves as a marker for caspase-6 activation. During apoptosis the 70 kDa lamin A is cleaved to a large (40-45 kDa) and small (23 kDa) fragment. The cleavage of lamins results in nuclear disregulation and cell death.
Uniprot ID:	P02545
NCBI:	NP_005563.1
GeneID:	4000
Host:	Rabbit
Immunogen:	Synthetic peptide surrounding amino acid 220 of human Lamin A
Format:	State: Liquid purified Ig fraction. Purification: Immunoaffinity Chromatography. Buffer System: PBS, pH 7.2 containing 30% Glycerol, 0.5% BSA and 0.01% Thimerosal.
Applications:	Immunohistochemistry (15-20 µg/ml). Western blot analysis (0.5-4 µg/ml). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	The antibody mainly detects full length (~70 kDa) and in a much lesser extent the cleaved fragments (45 kDa and 23 kDa) of Lamin A/C. Species: Human, Mouse and Rat. Other species not tested.
Add. Information:	Blocking peptide (AP00082CP-N) is available separately.
Storage:	Store the antibody undiluted at -20°C or for long term storage (in aliquots) at -70°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

Pictures:

Western blot analysis of Lamin A/C in lysates from Jurkat cells (Lane 1 and 2), mouse small intestine (Lane 3) and rat kidney (Lan 4).

