Rev03
Update: Dec,14,2021

DATASHEET

Lamin A+C Antibody, pAb, Rabbit

Cat. No.: A01455

Overview

Specificity	GenScript Rabbit Anti-Lamin A+C Polyclonal Antibody detects endogenous levels of human and mouse Lamin A and Lamin C. It is predicted to react with rat Lamin A and Lamin C according to sequence homology. Positive Control: Hela, A431, Lovo and NIH/3T3
Host Species	Rabbit
Immunogen	KLH-coupled synthetic peptide within residues 400-450 of human Lamin A (Swiss Prot: P02545).
Species Reactivity	Human and mouse. This product has not been tested for other species yet.
Conjugate	Unconjugated

Applications

Working concentrations for specific applications should be determined by the investigator. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

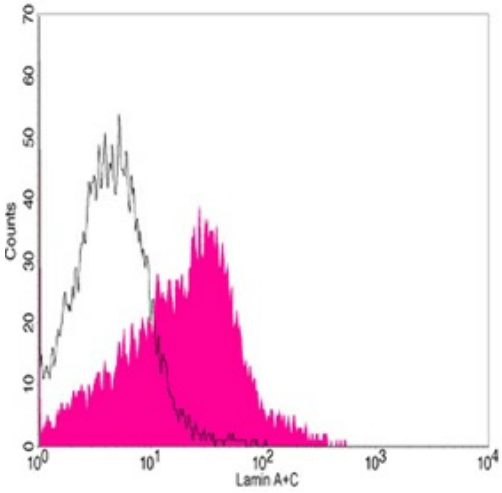
Application	Recommended Usage
Western Blot	0.5-1 µg/ml
Other applications	User-optimized
Flow cytometry	1-3 µg for 1 x 10⁶ cells

Properties

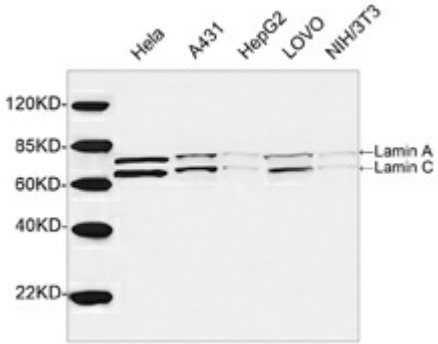
Form	Lyophilized
Storage Buffer	lyophilized with PBS, pH 7.4, containing 0.02% sodium azide
Reconstitution	Reconstitute the lyophilized powder with deionized water (or equivalent) to an final concentration of 0.5 mg/mL.

Storage Instructions	GenScript Rabbit Anti-Lamin A+C Polyclonal Antibody should be stored lyophilized until use. It remains stable in lyophilized form for at least two years if stored at -20°C or below. The reconstituted antibody can be stored for two to three weeks at 2-8°C or for up to 12 months at -20°C or below. Avoid repeated freeze and thaw cycles.
Purification	Affinity chromatography
Isotype	Rabbit IgG
Clonality	Polyclonal
Clone Id	Not applicable

Examples



Flow cytometric analysis of HepG2 cells using Lamin A+C Antibody, pAb, Rabbit (GenScript, A01455; shaded histogram) or with an isotype control antibody (GenScript, A01008; open histogram), followed by R-PE conjugated anti-rabbit IgG.



Western blot analysis of cell lysates using 1 µg/ml Rabbit Anti-Lamin A+C Polyclonal Antibody (GenScript, A01455)
The signal was developed with IRDye™ 800 Conjugated Goat Anti-Rabbit IgG.
Predicted Size: Lamin A 71 KD Lamin C 65 KD
Observed Size: Lamin A 71 KD Lamin C 65 KD

Background

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Target Background : Lamins are structural protein components of the nuclear lamina which contains 3 members: Lamin A, B and C in mammalian cells. Lamin A and lamin C are generated by alternative splicing from the same gene and share complete identity for the first 566 amino acids. Lamin A interacts with transcription factor SREBP1 via its C-terminal domain. The lamin A/C deficiency is probably associated with both defective nuclear mechanics and impaired transcriptional activation. The lamin A/C is cleaved by caspase-6 and serves as a marker for caspase-6 activation. GenScript Rabbit Anti-Lamin A+C Polyclonal Antibody is developed in rabbit using a KLH-coupled synthetic peptide within residues 400-450 of human Lamin A (Swiss Prot: P02545).

Synonyms : Lamin A/C antibody;

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.

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