

## Product datasheet

# Anti-LAP2 alpha antibody - N-terminal ab189993

3 Images

### Overview

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<b>Product name</b>	Anti-LAP2 alpha antibody - N-terminal
<b>Description</b>	Rabbit polyclonal to LAP2 alpha - N-terminal
<b>Host species</b>	Rabbit
<b>Specificity</b>	At least three isoforms of LAP2 alpha are known to exist; ab189993 will detect all isoforms. ab189993 is predicted to not cross-react with other LEM domain-containing proteins.
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse 
<b>Immunogen</b>	Synthetic peptide within Human LAP2 alpha (N terminal). The exact sequence is proprietary. 19 amino acid peptide near the amino terminus. NP_003267.1. Database link: <a href="#">P42166</a>
<b>Positive control</b>	Hela cells; Human liver tissue

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at 4°C (stable for up to 12 months). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.02% Sodium azide Constituent: 99% PBS
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

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Our [Abpromise guarantee](#) covers the use of **ab189993** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 2.5 - 5 µg/ml.
WB		Use a concentration of 0.25 µg/ml. Predicted molecular weight: 75 kDa.
IHC-P		Use a concentration of 2.5 µg/ml.

## Target

### Relevance

Lamins are type V intermediate filament proteins and are grouped into constitutively expressed B-type lamins and developmentally regulated A-type lamins. Lamin-binding proteins in the nuclear lamina and the nuclear interior include several protein families and/or types of proteins in higher eukaryotes such as the inner nuclear membrane proteins, lamin B receptor, emerin, MAN1, three isoforms of lamina-associated polypeptide 1 (LAP 1), and several isoforms of LAP 2. Up to six LAP 2 isoforms derive from a single gene by alternative splicing in mammals and various isoforms have been described in *Xenopus*. The best characterized LAP2 isoforms are the inner nuclear membrane protein LAP 2 beta and the nucleoplasmic protein LAP 2 alpha, which are identical in their N-terminal 187-amino acid constant region but differ in their C termini. LAP 2 alpha specifically interacts with A-type lamins within the nuclear interior as part of a detergent- and salt-resistant nucleoskeletal structure.

### Cellular localization

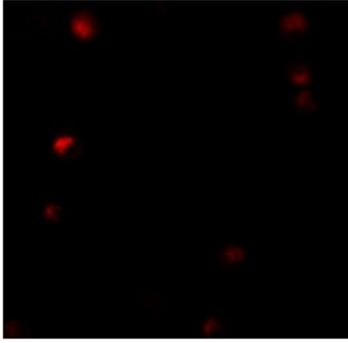
Nuclear

## Images



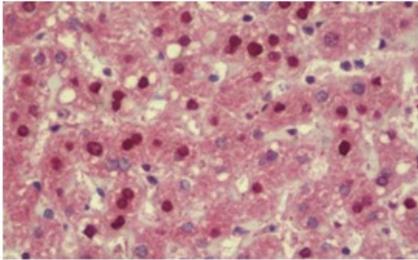
Immunocytochemical analysis of HeLa cells labeling LAP2 alpha with ab189993 at 2.5 µg/ml.

Immunocytochemistry/ Immunofluorescence - Anti-LAP2 alpha antibody - Nterminal (ab189993)



Immunofluorescent analysis of HeLa cells labeling LAP2 alpha with ab189993 at 5 µg/ml.

Immunocytochemistry/ Immunofluorescence - Anti-LAP2 alpha antibody - N-terminal (ab189993)



Immunohistochemical analysis of formalin fixed, paraffin embedded Human liver tissue labeling LAP2 alpha with ab189993 at 2.5 µg/ml.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LAP2 alpha antibody - N-terminal (ab189993)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Response to your inquiry within 24 hours
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- Extensive multi-media technical resources to help you
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