

Product datasheet

Anti-Caspase-9 antibody [2-22] ab69541

4 Images

Overview

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<b>Product name</b>	Anti-Caspase-9 antibody [2-22]
<b>Description</b>	Mouse monoclonal [2-22] to Caspase-9
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human, Monkey
<b>Immunogen</b>	Recombinant full length protein corresponding to Human Caspase-9 (Propeptide). Database link: <a href="#">P55211</a>
<b>Positive control</b>	HeLa cell lysate
<b>General notes</b>	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications &amp; species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications &amp; species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications &amp; species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications &amp; species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&amp;As.</p>

Properties

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<b>Form</b>	Liquid
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<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Constituents: 50% Glycerol, 0.00017% PMSF, PBS
<b>Purity</b>	Protein G purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	2-22
<b>Isotype</b>	IgG1

## Applications

Our [Abpromise guarantee](#) covers the use of **ab69541** in the following tested applications.

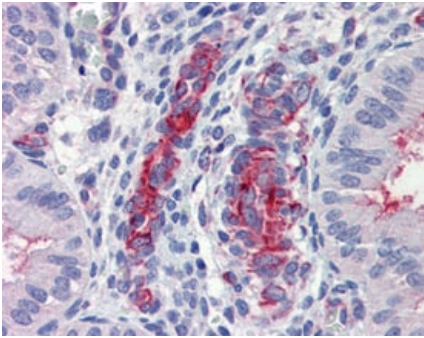
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration.
WB		Use a concentration of 2 µg/ml. Detects a band of approximately 46 kDa (predicted molecular weight: 46 kDa).

## Target

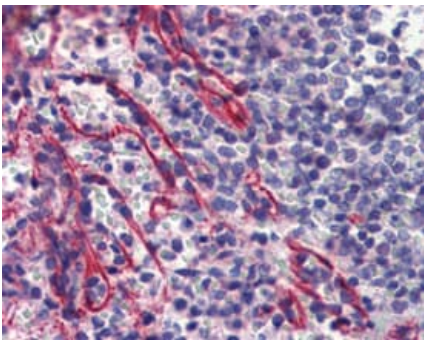
<b>Function</b>	Involved in the activation cascade of caspases responsible for apoptosis execution. Binding of caspase-9 to Apaf-1 leads to activation of the protease which then cleaves and activates caspase-3. Proteolytically cleaves poly(ADP-ribose) polymerase (PARP). Isoform 2 lacks activity is an dominant-negative inhibitor of caspase-9.
<b>Tissue specificity</b>	Ubiquitous, with highest expression in the heart, moderate expression in liver, skeletal muscle, and pancreas. Low levels in all other tissues. Within the heart, specifically expressed in myocytes.
<b>Sequence similarities</b>	Belongs to the peptidase C14A family. Contains 1 CARD domain.
<b>Developmental stage</b>	Expressed at low levels in fetal heart, at moderate levels in neonate heart, and at high levels in adult heart.
<b>Post-translational modifications</b>	Cleavages at Asp-315 by granzyme B and at Asp-330 by caspase-3 generate the two active subunits. Caspase-8 and -10 can also be involved in these processing events.

## Images



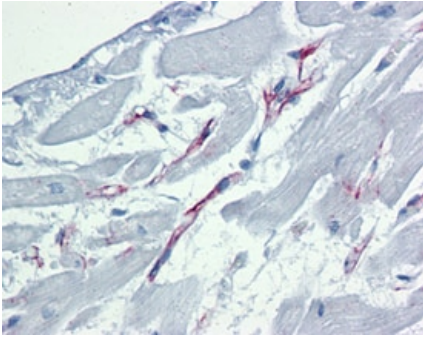
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human uterus, vessels tissue labelling Caspase-9 with ab69541 at 10 $\mu$ g/ml.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Caspase-9 antibody [2-22] (ab69541)



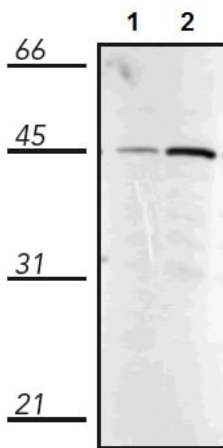
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human spleen tissue labelling Caspase-9 with ab69541 at 10 $\mu$ g/ml.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Caspase-9 antibody [2-22] (ab69541)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Caspase-9 antibody [2-22] (ab69541)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human heart tissue labelling Caspase-9 with ab69541 at 10µg/ml.



Western blot - Anti-Caspase-9 antibody [2-22] (ab69541)

**All lanes :** Anti-Caspase-9 antibody [2-22] (ab69541)

**Lane 1 :** HeLa cell lysate

**Lane 2 :** Induced HeLa cell lysate

**Predicted band size:** 46 kDa

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

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