

Product datasheet

Anti-Caspase-9 antibody ab52298

★★★★★ [1 Abreviews](#) [66 References](#) [2 Images](#)

Overview

Product name	Anti-Caspase-9 antibody
Description	Rabbit polyclonal to Caspase-9
Host species	Rabbit
Specificity	ab52298 detects endogenous levels of fragment of activated Caspase 9 resulting from cleavage adjacent to Asp 353.
Tested applications	Suitable for: IHC-P, WB
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide corresponding to Mouse Caspase-9.
General notes	<p>ab52298 is cleaved at Asp353</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>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, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituents: 50% Glycerol (glycerin, glycerine), 0.87% Sodium chloride, PBS</p>
Purity	Without Mg+2 and Ca+2
Purification notes	Immunogen affinity purified
Purification notes	ab52298 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab52298 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	★★★★★ (1)	Use at an assay dependent concentration.
WB		1/500 - 1/1000. Predicted molecular weight: 46 kDa.

Target

Function

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.

Tissue specificity

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.

Sequence similarities

Belongs to the peptidase C14A family.
Contains 1 CARD domain.

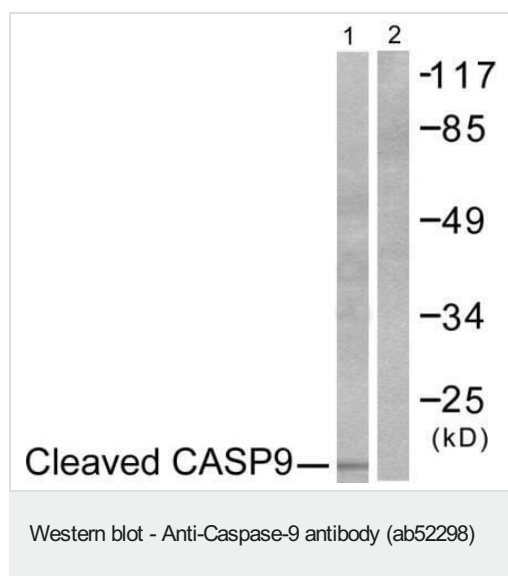
Developmental stage

Expressed at low levels in fetal heart, at moderate levels in neonate heart, and at high levels in adult heart.

Post-translational modifications

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

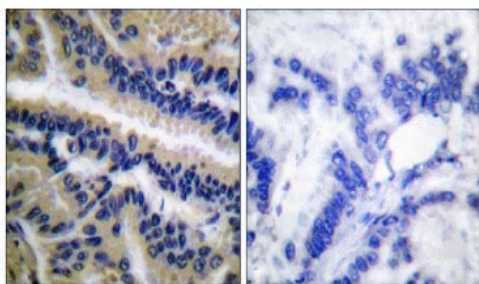


All lanes : Anti-Caspase-9 antibody (ab52298) at 1/1000 dilution

Lane 1 : NIH/3T3 (mouse embryo fibroblast cell line) cell lysate

Lane 2 : NIH/3T3 (mouse embryo fibroblast cell line) cell lysate with
Blocked with synthesized peptide

Predicted band size: 46 kDa



CI-peptide

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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Caspase-9 antibody (ab52298)

ab52298 at 1/50 dilution staining Caspase 9 in human lung carcinoma by Immunohistochemistry, Paraffin embedded tissue, in the absence or presence of the immunising peptide.

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

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