



Product datasheet

Anti-Caspase-10/CASP-10 antibody ab2012

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Overview

Product name	Anti-Caspase-10/CASP-10 antibody
Description	Rabbit polyclonal to Caspase-10/CASP-10
Host species	Rabbit
Tested applications	Suitable for: ICC, WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide corresponding to Human Caspase-10/CASP-10 aa 505-521 (C terminal). Sequence: ISAQTPRPPMRRWSSVS Database link: Q92851 (Peptide available as ab8377) <div>  Run BLAST with  Run BLAST with </div>
Positive control	WB: HeLa whole cell lysate. ICC: HeLa cells.
General notes	<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 +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.02% Sodium azide
Purity	DEAE-Chromatography
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab2012 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		Use at an assay dependent concentration.
WB		1/500 - 1/1000. Detects a band of approximately 59 kDa (predicted molecular weight: 59 kDa).

Target

Function

Involved in the activation cascade of caspases responsible for apoptosis execution. Recruited to both Fas- and TNFR-1 receptors in a FADD dependent manner. May participate in the granzyme B apoptotic pathways. Cleaves and activates caspase-3, -4, -6, -7, -8, and -9. Hydrolyzes the small- molecule substrates, Tyr-Val-Ala-Asp-AMC and Asp-Glu-Val-Asp-AMC.

Isoform C is proteolytically inactive.

Tissue specificity

Detectable in most tissues. Lowest expression is seen in brain, kidney, prostate, testis and colon.

Involvement in disease

Defects in CASP10 are the cause of autoimmune lymphoproliferative syndrome type 2A (ALPS2A) [MIM:603909]. ALPS2 is characterized by abnormal lymphocyte and dendritic cell homeostasis and immune regulatory defects.

Defects in CASP10 are a cause of familial non-Hodgkin lymphoma (NHL) [MIM:605027]. NHL is a cancer that starts in cells of the lymph system, which is part of the body's immune system. NHLs can occur at any age and are often marked by enlarged lymph nodes, fever and weight loss.

Defects in CASP10 are a cause of gastric cancer (GASC) [MIM:613659]. A malignant disease which starts in the stomach, can spread to the esophagus or the small intestine, and can extend through the stomach wall to nearby lymph nodes and organs. It also can metastasize to other parts of the body. The term gastric cancer or gastric carcinoma refers to adenocarcinoma of the stomach that accounts for most of all gastric malignant tumors. Two main histologic types are recognized, diffuse type and intestinal type carcinomas. Diffuse tumors are poorly differentiated infiltrating lesions resulting in thickening of the stomach. In contrast, intestinal tumors are usually exophytic, often ulcerating, and associated with intestinal metaplasia of the stomach, most often observed in sporadic disease.

Sequence similarities

Belongs to the peptidase C14A family.

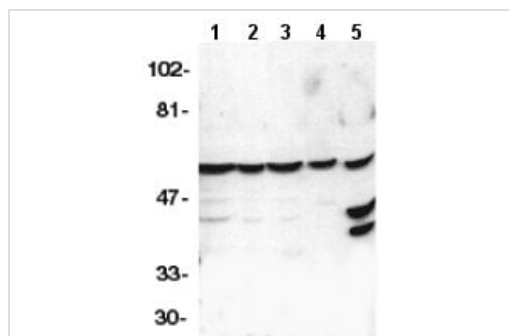
Contains 2 DED (death effector) domains.

Post-translational modifications

Cleavage by granzyme B and autocatalytic activity generate the two active subunits.

Phosphorylated upon DNA damage, probably by ATM or ATR.

Images



Western blot - Anti-Caspase-10/CASP-10 antibody (ab2012)

All lanes : Anti-Caspase-10/CASP-10 antibody (ab2012) at 1/1000 dilution

Lane 1 : HeLa whole cell lysate

Lane 2 : Jurkat whole cell lysate

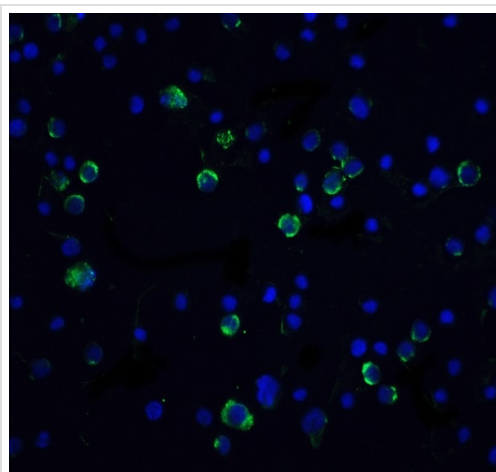
Lane 3 : A431 whole cell lysate

Lane 4 : K562 whole cell lysate

Lane 5 : NIH3T3 whole cell lysate

Predicted band size: 59 kDa

Observed band size: 59 kDa



Immunocytochemistry - Anti-Caspase-10/CASP-10 antibody (ab2012)

Immunocytochemistry/Immunofluorescence of HeLa cells labeling Caspase-10/CASP-10 with Anti-Caspase-10/CASP-10 antibody (ab2012) at 5µg/ml.

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