abcam

Product datasheet

Anti-Caspase-7 antibody [E22] ab32522

敲除验证 RabMAb

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概述

产品名称	Anti-Caspase-7抗体[E22]
描述	兔单克隆抗体[E22] to Caspase-7
宿主	Rabbit
特异性	The antibody should recognize both pro-form and p20 cleaved-form. The antibody does not cross-react with other Caspase family members.
经测试应用	**适用于:** WB, IHC-P, ICC/IF, IP, Flow Cyt (Intra)
种属反应性	**与反应:** Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Jurkat and HeLa whole cell lysate (**ab150035**). IHC-P: Human skin cancer tissue. ICC/IF: HeLa cells. Flow Cyt (intra): HeLa cells. IP: Jurkat cell lysates
常规说明	Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. 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. 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 Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide

	Constituents: 49% PBS, 50% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	E22
同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab32522于以下的经测试应用

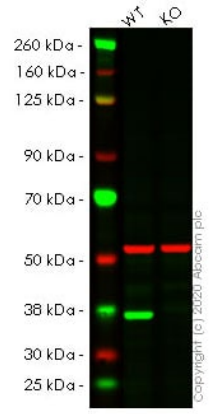
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★☆☆ (1)	1/1000. Detects a band of approximately 34 kDa (predicted molecular weight: 34 kDa).
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		1/100.
IP	★★★☆☆ (1)	1/20.
Flow Cyt (Intra)		1/250.

靶标

功能	Involved in the activation cascade of caspases responsible for apoptosis execution. Cleaves and activates sterol regulatory element binding proteins (SREBPs). Proteolytically cleaves poly(ADP-ribose) polymerase (PARP) at a '216-Asp- -Gly-217' bond. Overexpression promotes programmed cell death.
组织特异性	Highly expressed in lung, skeletal muscle, liver, kidney, spleen and heart, and moderately in testis. No expression in the brain.
序列相似性	Belongs to the peptidase C14A family.
翻译后修饰	Cleavages by granzyme B or caspase-10 generate the two active subunits. Propeptide domains can also be cleaved efficiently by caspase-3. Active heterodimers between the small subunit of caspase-7 and the large subunit of caspase-3, and vice versa, also occur.
细胞定位	Cytoplasm.

图片



Western blot - Anti-Caspase-7 antibody [E22] (ab32522)

All lanes : Anti-Caspase-7 antibody [E22] (ab32522) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate
Lane 2 : CASP7 knockout HeLa cell lysate

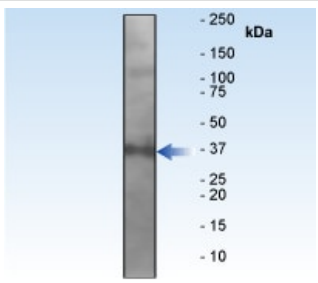
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 34 kDa
Observed band size: 38 kDa

Lanes 1- 2: Merged signal (red and green). Green - ab32522 observed at 38 kDa. Red - Anti-alpha Tubulin antibody [DM1A] - Loading Control (**ab7291**) observed at 50 kDa.

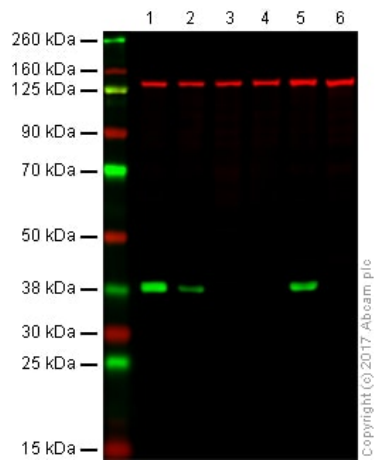
ab32522 was shown to react with pro Caspase-7 in wild-type HeLa cells in western blot. Loss of signal was observed when knockout cell line **ab265777** (knockout cell lysate **ab257380**) was used. Wild-type HeLa and CASP7 knockout HeLa cell lysates were subjected to SDS-PAGE. ab32522 and Anti-alpha Tubulin antibody [DM1A] - Loading Control (**ab7291**) overnight at 4°C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye®800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye®680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Caspase-7 antibody [E22] (ab32522)

Anti-Caspase-7 antibody [E22] (ab32522) at 1/1000 dilution + Jurkat cell lysate

Predicted band size: 34 kDa
Observed band size: 34 kDa

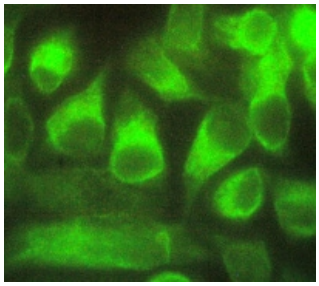


Western blot - Anti-Caspase-7 antibody [E22] (ab32522)

Lane 1: Wild type HAP1 whole cell lysate (20 µg)
Lane 2: Wild type HAP1 + Staurosporine **ab120056** whole cell lysate (20 µg)
Lane 3: CASP7 knockout HAP1 whole cell lysate (20 µg)
Lane 4: CASP7 + Staurosporine knockout HAP1 whole cell lysate (20 µg)
Lane 5: HeLa whole cell lysate (20 µg)
Lane 6: HeLa + Staurosporine whole cell lysate (20 µg)

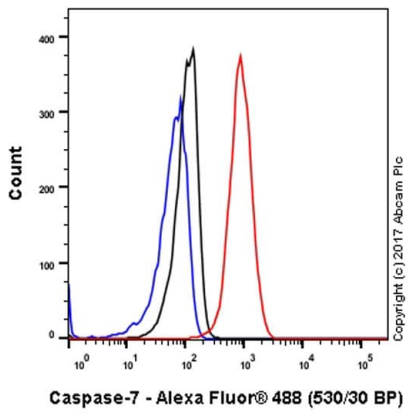
Lanes 1 - 6: Merged signal (red and green). Green - ab32522 observed at 38 kDa. Red - loading control, **ab18058**, observed at 130 kDa.

ab32522 was shown to specifically react with HAP1 + Staurosporine when HAP1 + Staurosporine knockout samples were used. Wild-type and HAP1 + Staurosporine knockout samples were subjected to SDS-PAGE. Ab32522 and **ab18058** (Mouse anti Vinculin loading control) were incubated overnight at 4°C at 1000 dilution and 1/10000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



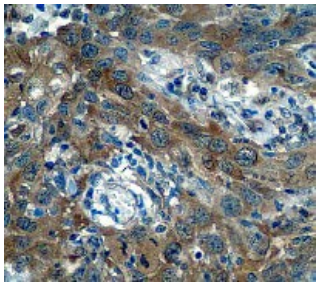
Immunocytochemistry/ Immunofluorescence - Anti-Caspase-7 antibody [E22] (ab32522)

Immunofluorescent staining of HeLa cells using ab32522 at 1:100 dilution.



Flow Cytometry (Intracellular) - Anti-Caspase-7 antibody [E22] (ab32522)

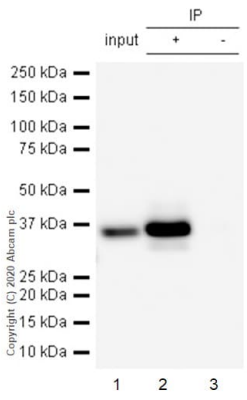
Intracellular Flow Cytometry analysis of HeLa (human cervix adenocarcinoma) cells labeling Caspase-7 (red) with ab32522 at a 1/250 dilution. Cells were fixed with 4% paraformaldehyde and permeabilized with 90% methanol. A goat anti-rabbit IgG (Alexa Fluorr® 488) (**ab150077**) was used as the secondary antibody at a 1/2000 dilution. Black - Rabbit monoclonal IgG (**ab172730**). Blue (unlabeled control) - Cells without incubation with the primary and secondary antibodies.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Caspase-7 antibody [E22] (ab32522)

Immunohistochemical analysis of paraffin embedded human skin cancer tissue using ab32522 at 1:50 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunoprecipitation - Anti-Caspase-7 antibody [E22] (ab32522)

Purified ab32522 at 1/20 dilution (1µg) immunoprecipitating Caspase-7 in Jurkat whole cell lysate.
Lane 1 (input): Jurkat (Human T cell leukemia T lymphocyte) whole cell lysate 10µg
Lane 2 (+): ab32522 + Jurkat whole cell lysate.
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab32522 in Jurkat whole cell lysate.
VeriBlot for IP Detection Reagent (HRP) (**ab131366**) (1/1000 dilution) was used for Western blotting.
Blocking Buffer and concentration: 5% NFDM/TBST.
Diluting buffer and concentration: 5% NFDM/TBST.
Observed band size: 34 kDa

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