


Anti-Caspase-3 antibody ab90437

★★★★★ 9 Abreviews 103 References 3 图像

概述

产品名称	Anti-Caspase-3抗体
描述	兔多克隆抗体to Caspase-3
宿主	Rabbit
经测试应用	适用于: WB, IHC-P
种属反应性	与反应: Human, Saccharomyces cerevisiae
免疫原	<p>Recombinant full length protein corresponding to Human Caspase-3 aa 1-277.</p> <p>Sequence:</p> <p>MENTENSVDSKSIKNLEPKIIHGSESMDSGISLDNSYKMDYP EMGLCIII NNKNFHKSTGMTSRSGTDVDAANLRETFRNLYEVRNKNDLT REEIVELM RDVSKEDHSKRSSFVCVLLSHGEEGIIFGTNGPVDLKKITNF FRGDRCRS LTGKPKLFIIQACRGTELDGCIETDSGVDDDMACHKIPVEAD FLYAYSTA PGYYSWRNSKDGSWFIQSLCAMLKQYADKLEFMHILTRVNRK VATEFESF SFDATFHAKKQIPCIVSMLTKELYFYH</p> <p>Database link: P42574</p> <div><div> Run BLAST with</div><div> Run BLAST with</div></div>
阳性对照	Jurkat whole cell lysate (ab7899), Jurkat cells treated with staurosporine (lysate), HeLa whole cell lysate (ab150035)
常规说明	<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>

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	Preservative: 0.09% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine)
纯度	Protein A purified
纯化说明	Affinity Purification
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab90437于以下的经测试应用

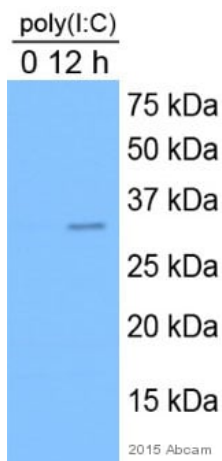
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★☆ (7)	1/1000. Predicted molecular weight: 32 kDa. A lower molecular weight band refers to a proteolytic cleavage product of caspase-3.
IHC-P		Use at an assay dependent concentration.

靶标

功能	Involved in the activation cascade of caspases responsible for apoptosis execution. At the onset of apoptosis it proteolytically cleaves poly(ADP-ribose) polymerase (PARP) at a '216-Asp-Gly-217' bond. Cleaves and activates sterol regulatory element binding proteins (SREBPs) between the basic helix-loop-helix leucine zipper domain and the membrane attachment domain. Cleaves and activates caspase-6, -7 and -9. Involved in the cleavage of huntingtin.
组织特异性	Highly expressed in lung, spleen, heart, liver and kidney. Moderate levels in brain and skeletal muscle, and low in testis. Also found in many cell lines, highest expression in cells of the immune system.
序列相似性	Belongs to the peptidase C14A family.
翻译后修饰	Cleavage by granzyme B, caspase-6, caspase-8 and caspase-10 generates the two active subunits. Additional processing of the propeptides is likely due to the autocatalytic activity of the activated protease. Active heterodimers between the small subunit of caspase-7 protease and the large subunit of caspase-3 also occur and vice versa. S-nitrosylated on its catalytic site cysteine in unstimulated human cell lines and denitrosylated upon activation of the Fas apoptotic pathway, associated with an increase in intracellular caspase activity. Fas therefore activates caspase-3 not only by inducing the cleavage of the caspase zymogen to its active subunits, but also by stimulating the denitrosylation of its active site thiol.
细胞定位	Cytoplasm.

图片



Western blot - Anti-Caspase-3 antibody (ab90437)

This image is courtesy of an anonymous abreview.

All lanes : Anti-Caspase-3 antibody (ab90437) at 1/1000 dilution

Lane 1 : Mouse hepatocytes whole cell lysate poly(I:C) treated - 0 hours

Lane 2 : Mouse hepatocytes whole cell lysate poly(I:C) treated - 12 hours

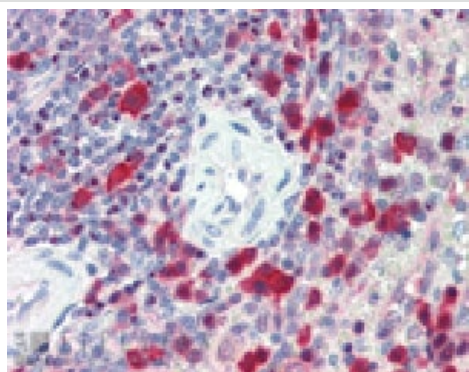
Developed using the ECL technique.

Predicted band size: 32 kDa

Observed band size: 32 kDa

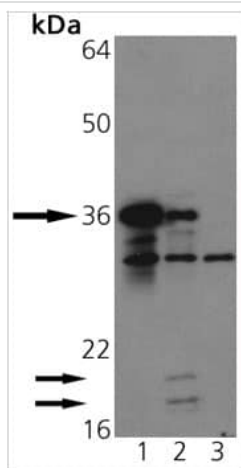
Exposure time: 20 seconds

Blocking with 5% milk for 1 hour at 23°C.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Caspase-3 antibody (ab90437)

Immunohistochemistry analysis of human spleen tissue stained with Caspase-3, pAb at 10µg/ml.



Western blot - Anti-Caspase-3 antibody (ab90437)

All lanes : Anti-Caspase-3 antibody (ab90437) at 1/1000 dilution

Lane 1 : Jurkat cell lysate

Lane 2 : Jurkat cells treated with staurosporine

Lane 3 : MCF-7 cell lysate (negative control)

Developed using the ECL technique.

Predicted band size: 32 kDa

Additional bands at: ~18 kDa (possible cleavage fragment), ~20 kDa (possible cleavage fragment)

Western blot analysis of Caspase-3 pAb.

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