

Anti-Cleaved Caspase-3 antibody [E83-77] - BSA and Azide free ab208003

敲除验证 重组 RabMAb

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概述

产品名称	Anti-Cleaved Caspase-3抗体[E83-77] - BSA and Azide free
描述	兔单克隆抗体[E83-77] to Cleaved Caspase-3 - BSA and Azide free
宿主	Rabbit
特异性	Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information. This antibody only detects the active (cleaved) form of Caspase-3 and does not recognize the pro form of Caspase-3. PubMedID 19789217 describes the detection of human cells injected into mice. The pro-caspase-3 is cleaved only when apoptosis event occurs. So, in order to detect active Caspase-3, we strongly suggest to induce your samples into apoptotic pathway.
经测试应用	适用于: WB, ICC/IF 不适用于: Flow Cyt, IHC-P or IP
种属反应性	与反应: Human, Recombinant fragment
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Jurkat cell lysate, treated wild type HeLa cell lysate. ICC/IF: Hela cells.
常规说明	ab208003 is the carrier-free version of ab32042 . Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar [®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar [®] is a trademark of Fluidigm Canada Inc. Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.
存储溶液	pH: 7.2 Constituent: PBS
无载体	是
纯度	Protein A purified
克隆	单克隆
克隆编号	E83-77
同种型	IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab208003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		Use at an assay dependent concentration. Detects a band of approximately 17 kDa (predicted molecular weight: 32 kDa).
ICC/IF		Use at an assay dependent concentration.

应用说明 Is unsuitable for Flow Cyt, IHC-P or IP.

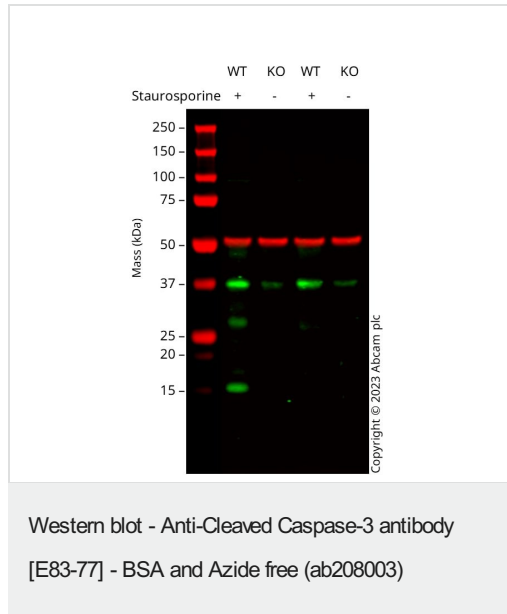
靶标

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. Triggers cell adhesion in sympathetic neurons through RET cleavage.
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.
Cytoplasm.

细胞定位

图片



All lanes : Anti-Cleaved Caspase-3 antibody [E83-77] ([ab32042](#)) at 1/500 dilution

Lane 1 : Wild-type HeLa Treated Staurosporine (2uM, 4h) cell lysate

Lane 2 : CASP3 knockout HeLa Treated Staurosporine (2uM, 4h) cell lysate

Lane 3 : Wild-type HeLa Vehicle Control Staurosporine (0uM, 4h) cell lysate

Lane 4 : CASP3 knockout HeLa Vehicle Control Staurosporine (0uM, 4h) cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

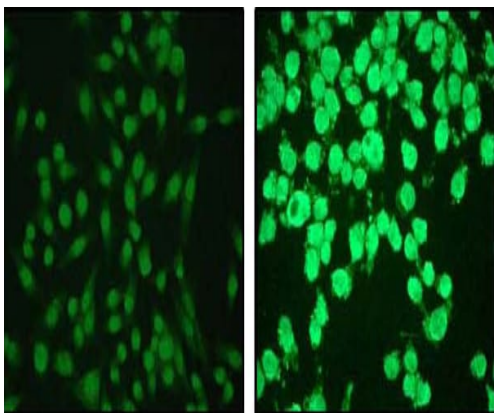
Predicted band size: 32 kDa

Observed band size: 16,28 kDa

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab32042](#)).

Anti-CASP3 antibody [E83-77] ([ab32042](#)) staining at 1/500 dilution, shown in green; Mouse anti-Alpha Tubulin [DM1A] ([ab7291](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, [ab32042](#) was shown to bind specifically to CASP3. A band was observed at 16/28 kDa in treated wild-type HeLa cell lysates with no signal observed at this size in CASP3 knockout cell line. To generate this image, wild-type and CASP3 knockout HeLa cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween[®] 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit

IgG H&L 800CW and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution.



Ab32042, at dilution of 1/100, staining HeLa cells by Immunofluorescence.

Left image: control.

Right image: staurosporine treated.

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Immunocytochemistry/ Immunofluorescence - Anti-Cleaved Caspase-3 antibody [E83-77] - BSA and Azide free (ab208003)

Why choose a recombinant antibody?



Anti-Cleaved Caspase-3 antibody [E83-77] - BSA and Azide free (ab208003)

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

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