

Product datasheet

Anti-Caspase-3 antibody ab123114

2 References 1 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
特异性	ab123114 recognizes the end of the active form of human caspase-3, p20/p17 subunit but does not recognize the proenzyme p32.
经测试应用	适用于: WB, ELISA, ICC
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide corresponding to Human Caspase-3 aa 170-175. Sequence: CGIETD Database link: P42574
阳性对照	NT2 neurons infected with adenovirus vector expressing β -galactosidase or APP

[Run BLAST with](#)

[Run BLAST with](#)

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	Preservative: 0.05% Sodium azide Constituent: 99% Whole serum
纯度	Whole antiserum
克隆	多克隆
同种型	IgG

应用

Our [Abpromise guarantee](#) covers the use of **ab123114** in the following tested applications.

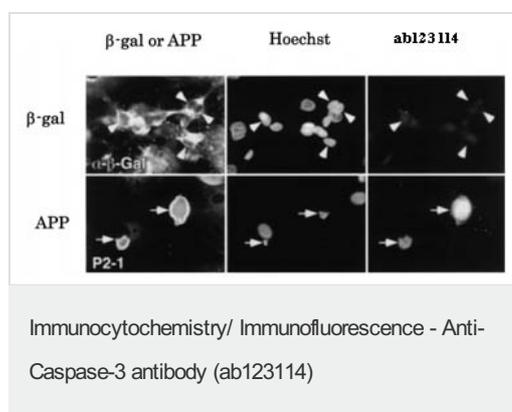
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
WB		1/1000 - 1/3000. Predicted molecular weight: 17 kDa.
ELISA		Use at an assay dependent dilution.
ICC		1/500 - 1/1000.

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



NT2 neurons (neurally differentiated Human NT2 embryonic carcinoma cells) were infected with adenovirus vector expressing beta-galactosidase (upper panel) or APP (lower panel), fixed 48 h later, and stained for the N-terminus of APP or beta-gal, chromosomal DNA (Hoechst), and activated caspase-3 subunits using ab123114 at a dilution of 1/500.

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