

产品名称: Caspase-1 Rabbit Polyclonal Antibody
产品货号: APRab07960



产品概述 (Summary)

产品名称 (Production Name)	Caspase-1 Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ICC/IF,ELISA
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	CASP1
别名 (Alternative Names)	caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase)
基因 ID (Gene ID)	834.0
蛋白 ID (SwissProt ID)	P29466.The antiserum was produced against synthesized peptide derived from the C-terminal region of human CASP1. AA range:350-400

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:50-1:300,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000
蛋白分子量 (Molecular Weight)	45kDa, 35kDa, cleaved isform p10 :10kDa

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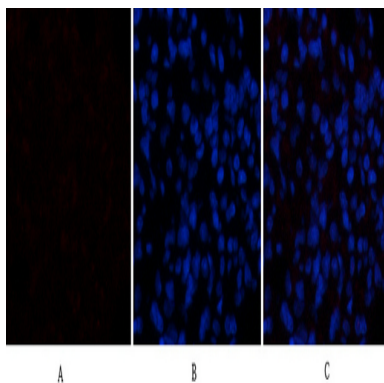
研究背景 (Background)

This gene encodes a protein which is a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce 2 subunits, large and small, that dimerize to form the active enzyme. This gene was identified by its ability to proteolytically cleave and activate the inactive precursor of interleukin-1, a cytokine involved in the processes such as inflammation, septic shock, and wound healing. This gene has been shown to induce cell apoptosis and may function in various developmental stages. Studies of a similar gene in mouse suggest a role in the pathogenesis of Huntington disease. Alternative splicing results in transcript variants encoding distinct isoforms. [provided by RefSeq, Mar 2012], alternative products: Additional isoforms seem to exist, catalytic activity: Strict requirement for an Asp residue at position P1 and has a preferred cleavage sequence of Tyr-Val-Ala-Asp-|-., enzyme regulation: Specifically inhibited by the cowpox virus Crma protein., function: Thiol protease that cleaves IL-1 beta between an Asp and an Ala, releasing the mature cytokine which is involved in a variety of inflammatory processes. Important for defense against pathogens. Cleaves and activates sterol regulatory element binding proteins (SREBPs). Can also promote apoptosis., PTM: The two subunits are derived from the precursor sequence by an autocatalytic mechanism., similarity: Belongs to the peptidase C14A family., similarity: Contains 1 CARD domain., subunit: Heterotetramer that consists of two anti-parallel arranged heterodimers, each one formed by a 20 kDa (p20) and a 10 kDa (p10) subunit. The p20 subunit can also form a heterodimer with the epsilon isoform which then has an inhibitory effect. May be a component of the inflammasome, a protein complex which also includes PYCARD, CARD8 and NALP2 and whose function would be the activation of proinflammatory caspases. Interacts with CARD17/INCA and CARD18., tissue specificity: Expressed in larger amounts in spleen and lung. Detected in liver, heart, small intestine, colon, thymus, prostate, skeletal muscle, peripheral blood leukocytes, kidney and testis. No expression in the brain.,

研究领域 (Research Area)

NOD-like receptor; Cytosolic DNA-sensing pathway; Amyotrophic lateral sclerosis (ALS);

图片 (Image Data)

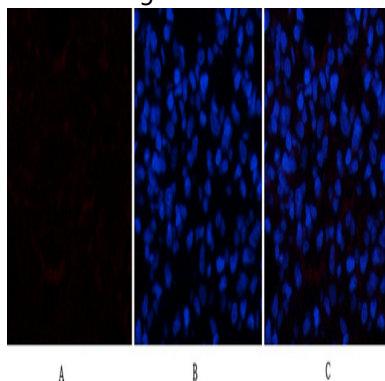


Immunofluorescence analysis of rat-lung tissue. 1, Caspase-1 Polyclonal Antibody (red) was diluted at

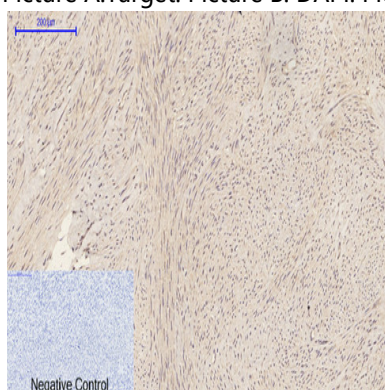
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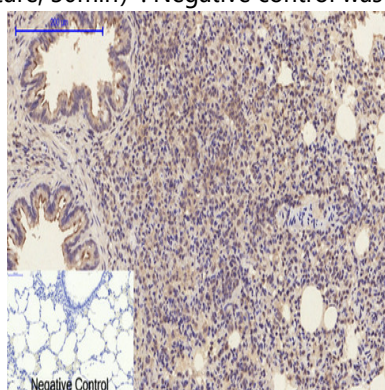
1:200 (4°C, overnight) . 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min) . 3, Picture B:
DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



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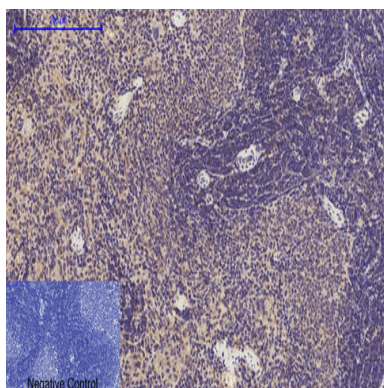


Immunohistochemical analysis of paraffin-embedded Human-uterus tissue. 1, Caspase-1 Polyclonal Antibody was diluted at
1:200 (4°C, overnight) . 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min) . 3, Secondary antibody was
diluted at 1:200 (room temperature, 30min) . Negative control was used by secondary antibody only.

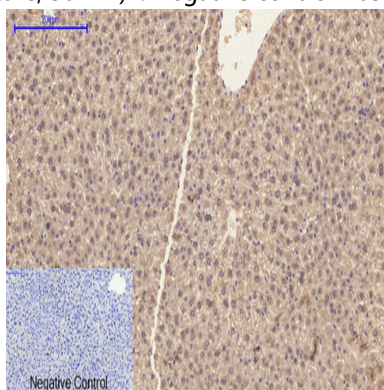


Immunohistochemical analysis of paraffin-embedded Rat-lung tissue. 1, Caspase-1 Polyclonal Antibody was diluted at
1:200 (4°C, overnight) . 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min) . 3, Secondary antibody was
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Immunohistochemical analysis of paraffin-embedded Rat-spleen tissue. 1, Caspase-1 Polyclonal Antibody was diluted at 1:200 (4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.

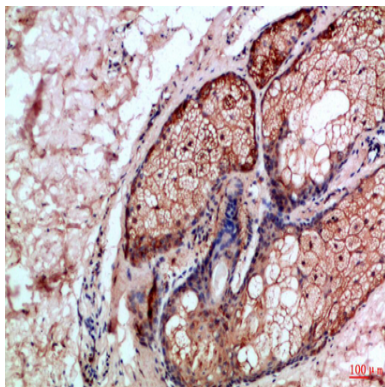


Immunohistochemical analysis of paraffin-embedded Mouse-liver tissue. 1, Caspase-1 Polyclonal Antibody was diluted at 1:200 (4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.

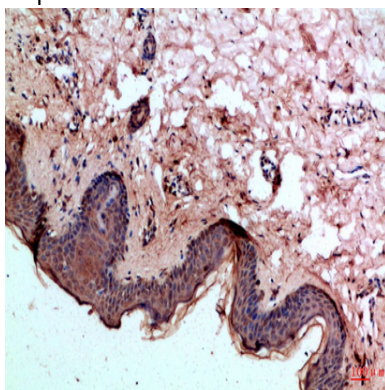


Western Blot analysis of 293T, HeLa, MCF-7, HeLa-UV, MCF-7-UV, KB-UV cells using Caspase-1 Polyclonal Antibody diluted at 1:1000. Secondary antibody was diluted at 1:20000.

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Immunohistochemical analysis of paraffin-embedded Human-skin, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded Human-skin, antibody was diluted at 1:100

注意事项 (Note)

For research use only .