abcam

Product datasheet

Anti-Caspase-2L antibody ab2251

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概述

产品名称	Anti-Caspase-2L抗体
描述	兔多克隆抗体to Caspase-2L
宿主	Rabbit
经测试应用	**适用于:** WB, IHC-Fr, ICC/IF, IHC-P, IP
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Synthetic peptide corresponding to Human Caspase-2 aa 300-400 conjugated to Keyhole Limpet Haemocyanin (KLH). Database link: **P42575** (Peptide available as **ab13766**)
阳性对照	This antibody gave a positive signal in the following cell lysates: Hela (whole cell and nuclear), A431, Jurkat, HEK293 and in the Caspase 2 recombinant protein and in A431 cell line in IF.

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 or -80°C. Avoid freeze / thaw cycle.
存储溶液	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab2251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

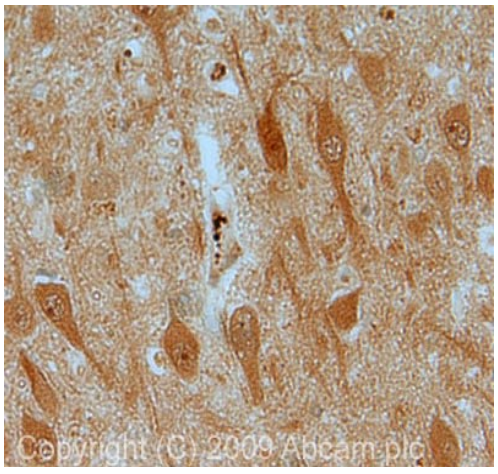
应用	Ab评论	说明
WB	★★★★☆ (1)	Use a concentration of 1 µg/ml. Detects a band of approximately 35 kDa (predicted molecular weight: 31 kDa).
IHC-Fr	★★★★☆ (1)	Use at an assay dependent concentration. PubMed: 24223903
ICC/IF		Use a concentration of 10 µg/ml.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
IP		Use at an assay dependent concentration.

靶标

相关性 Function: Involved in the activation cascade of caspases responsible for apoptosis execution. Might function by either activating some proteins required for cell death or inactivating proteins necessary for cell survival. Tissue specificity: Expressed at higher levels in the embryonic lung, liver and kidney than in the heart and brain. In adults, higher level expression is seen in the placenta, lung, kidney, and pancreas than in the heart, brain, liver and skeletal muscle. Similarity: Belongs to the peptidase C14A family. Contains 1 CARD domain. PTM: The mature protease can process its own propeptide, but not that of other caspases.

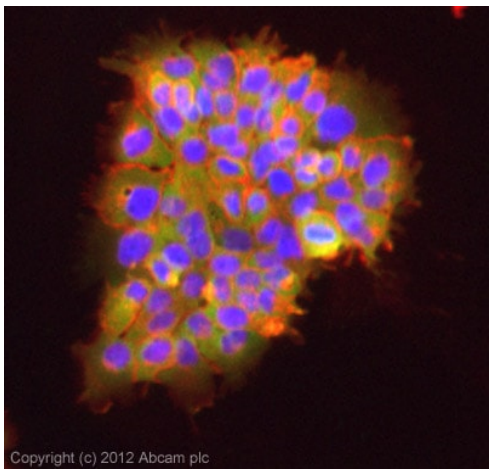
形式 Specific for P42575-1; the isoform that has been chosen as the 'canonical' sequence.

图片



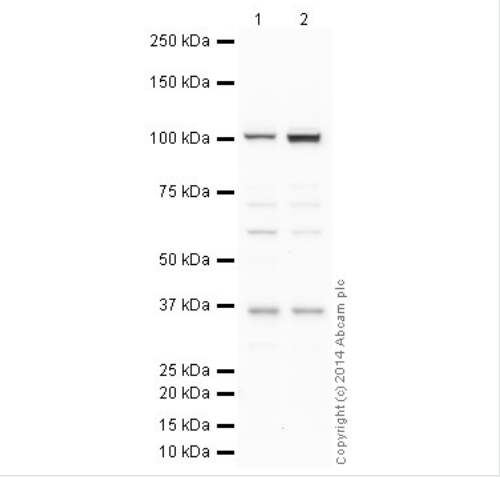
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Caspase-2L antibody (ab2251)

IHC image of Caspase-2 staining in human hippocampus FFPE section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab2251, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunocytochemistry/ Immunofluorescence - Anti-Caspase-2L antibody (ab2251)

ICC/IF image of ab2251 stained A431 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab2251, 10µg/ml) overnight at +4°C. The secondary antibody (green) was **ab96899**, **anti-rabbit DyLight® 488** used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Western blot - Anti-Caspase-2L antibody (ab2251)

All lanes : Anti-Caspase-2L antibody (ab2251) at 1 µg/ml

Lane 1 : Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate
Lane 2 : HEK293 Human embryonic kidney cell line Whole Cell Lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/10000 dilution

Developed using the ECL technique.

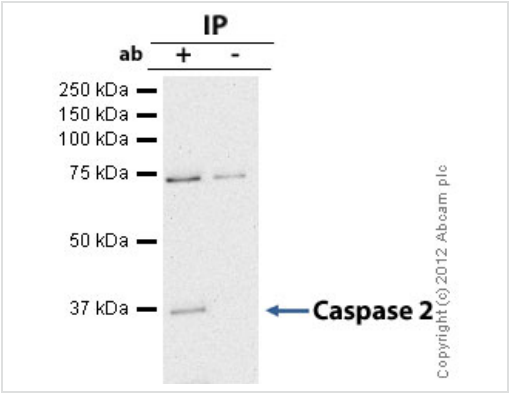
Performed under reducing conditions.

Predicted band size: 31 kDa
Observed band size: 36 kDa
Additional bands at: 100 kDa, 60 kDa, 70 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 90 seconds

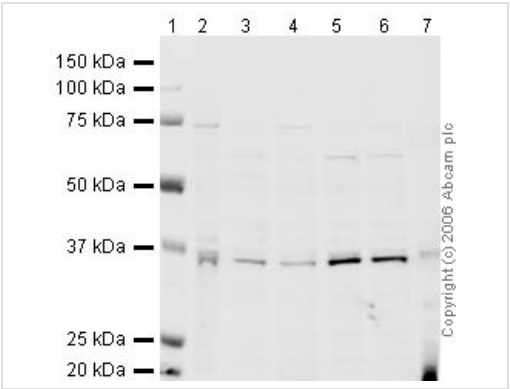
This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being

transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 5% Bovine Serum Albumin before being incubated with ab2251 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution.



Immunoprecipitation - Anti-Caspase-2L antibody (ab2251)

Caspase 2 was immunoprecipitated using 0.5mg Jurkat whole cell extract, 5µg of Rabbit polyclonal to Caspase 2 and 50µl of protein G magnetic beads (+). No antibody was added to the control (-). The antibody was incubated under agitation with Protein G beads for 10min, Jurkat whole cell extract lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.
Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70^{o}C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab2251.
Secondary: Mouse monoclonal [SB62a] Secondary Antibody **anti-Rabbit IgG light chain HRP** (**ab99697**).
Band: 35kDa: Caspase 2 .



Western blot - Anti-Caspase-2L antibody (ab2251)

Lane 1 : Marker
Lanes 2-7 : Anti-Caspase-2L antibody (ab2251) at 1 µg/ml

Lane 2 : HeLa (Human epithelial carcinoma cell line) Nuclear Lysate (**ab27251**) at 20 µg
Lane 3 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate (**ab27252**) at 20 µg
Lane 4 : A-431 whole cell lysate (**ab7909**) at 20 µg
Lane 5 : Jurkat whole cell lysate (**ab7899**) at 20 µg
Lane 6 : HEK-293 whole cell lysate (**ab7902**) at 20 µg
Lane 7 : Recombinant Caspase 2 antibody at 10 µg

Secondary
Lanes 2-7 : Rabbit IgG secondary antibody (**ab28446**) at 1/10000 dilution

Performed under reducing conditions.

Predicted band size: 31 kDa

ab2251 detects a band at 35 kDa in cell lysates and a 20 kDa band in the Caspase recombinant protein corresponding to the tagged form.

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