Caspase 12
Polyclonal ANTIBODY
Catalog Number: 55238-1-AP

Basic Information

Catalog Number: 55238-1-AP
Size: 60 μg/150 μl
Source: Rabbit
Isotype: IgG
Purification Method: Antigen affinity purification

Calculating MW: 39 kDa
Observed MW: 36-42 kDa, 50 kDa

Recommended Dilutions:
WB: 1:500-1:2000
IP: 0.5-4.0 μg for IP and 1:500-1:2000 for WB
IHC: 1:500-1:1000

Applications

Tested Applications:
IF, IHC, WB, ELISA
Cited Applications:
IF, IHC, WB

Species Specificity:
human

Positive Controls:
WB: HEK-293 cells, multi-cells
IP: HEK-293 cells;
IHC: human prostate hyperplasia tissue, human heart tissue
IF: HeLa cells;

Background Information

Caspase-12 is an enzyme known as a cysteine protease. It belongs to a family of enzymes called caspases that cleave their substrates at C-terminal aspartic acid residues. It is most highly related to members of the ICE subfamily of caspases that process inflammatory cytokines. Caspase-12 is located in the endoplasmic reticulum (ER). It is responsible for ER-stress-induced apoptosis, such as high calcium concentration, low oxygen and low glucose levels. Caspase-12 Antibody detects endogenous levels of full-length caspase-12 protein (50 kDa) and its cleaved product (40-44 kDa). This antibody does not cross-react with other caspases.

Notable Publications

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<th>Author</th>
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<tr>
<td>Qiang Niu</td>
<td>291007348</td>
<td>Environ Pollut</td>
<td>WB, IHC, IF</td>
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<td>Shimin Zong</td>
<td>26049998</td>
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<td>Gongsheng Yuan</td>
<td>27883226</td>
<td>J Bone Miner Res</td>
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Storage

Store at -20°C. Stable for one year after shipment. Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage.

For technical support and original validation data for this product, please contact:
T: 1 (888) 4PTGLAB (toll free in USA), or 1 (312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
HEK-293 cells were subjected to SDS PAGE followed by western blot with 55238-1-AP (CASP12 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.

WB result of 55238-1-AP (CASP12 antibody) with various lysates.

Immunohistochemistry of paraffin-embedded human prostate hyperplasia tissue slide using 55238-1-AP (CASP12 Antibody) at dilution of 1:200 (under 10x lens).

Immunofluorescent analysis of (10% Formaldehyde) fixed HeLa cells using 55238-1-AP (Caspase 12 antibody) at dilution of 1:200 and Alexa Fluor 488-conjugated Anti-Rabbit IgG (H+L).