



Datasheet for ABIN3023067

## anti-Caspase 3 antibody (AA 55-160)

12 Images

17 Publications



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### Overview

Quantity:	100 µL
Target:	Caspase 3 (CASP3)
Binding Specificity:	AA 55-160
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Caspase 3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

### Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 55-160 of human Caspase-3 (NP_004337.2).
Sequence:	FHKSTGMTSR SGTDVDAANL RETFRNLKYE VRNKNDLTRE EIVELMRDVS KEDHSKRSSF VCVLLSHGEE GIIFGTNGPV DLKKITNFFR GDRCRSLTGK PKLFII
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

## Target Details

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Target:	Caspase 3 (CASP3)
Alternative Name:	CASP3 ( <a href="#">CASP3 Products</a> )
Background:	<p>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 two subunits, large and small, that dimerize to form the active enzyme. This protein cleaves and activates caspases 6, 7 and 9, and the protein itself is processed by caspases 8, 9 and 10. It is the predominant caspase involved in the cleavage of amyloid-beta 4A precursor protein, which is associated with neuronal death in Alzheimer's disease. Alternative splicing of this gene results in two transcript variants that encode the same protein.,CPP32, CPP32B, SCA-1, Active Caspase 3, CASP3, active Caspase-3, Caspase 3, Caspase-3 p12, caspase-3, Signal Transduction, ErbB-HER Signaling Pathway, Cell Biology &amp; Developmental Biology, Apoptosis, Caspases, Mitochondrial Control of Apoptosis, Inhibition of Apoptosis, Death Receptor Signaling Pathway, Hippo Signaling Pathway, Neuroscience, Neurodegenerative Diseases, Amyloid Plaque and Neurofibrillary Tangle Formation in Alzheimer's Disease, CASP3</p>
Molecular Weight:	31 kDa
Gene ID:	836
UniProt:	<a href="#">P42574</a>
Pathways:	<a href="#">Apoptosis</a> , <a href="#">Caspase Cascade in Apoptosis</a> , <a href="#">Sensory Perception of Sound</a> , <a href="#">ER-Nucleus Signaling</a> , <a href="#">Positive Regulation of Endopeptidase Activity</a> , <a href="#">Activated T Cell Proliferation</a>

## Application Details

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Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Handling

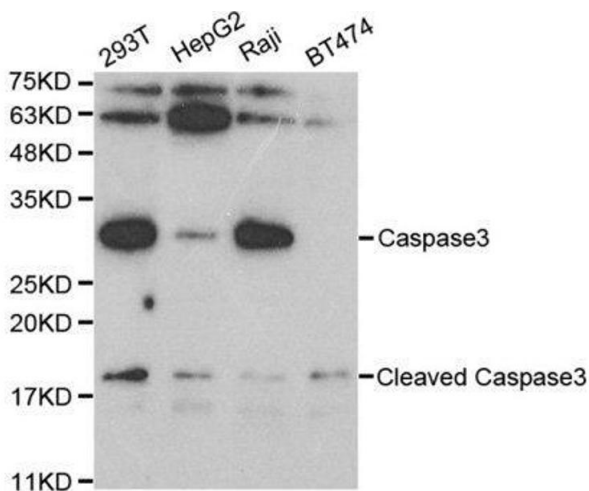
Handling Advice:	Avoid freeze / thaw cycles
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

## Publications

Product cited in: Ma, Xu, Cui, Sun, Xue, Wang: "Impaired GABA synthesis, uptake and release are associated with depression-like behaviors induced by chronic mild stress." in: **Translational psychiatry**, Vol. 6, Issue 10, pp. e910, (2017) ([PubMed](#)).

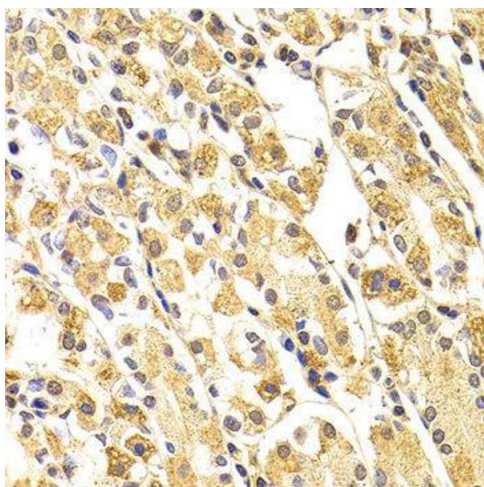
There are more publications referencing this product on: [Product page](#)

## Validation report #104228 for Cleavage Under Targets and Release Using Nuclease (CUT&RUN)



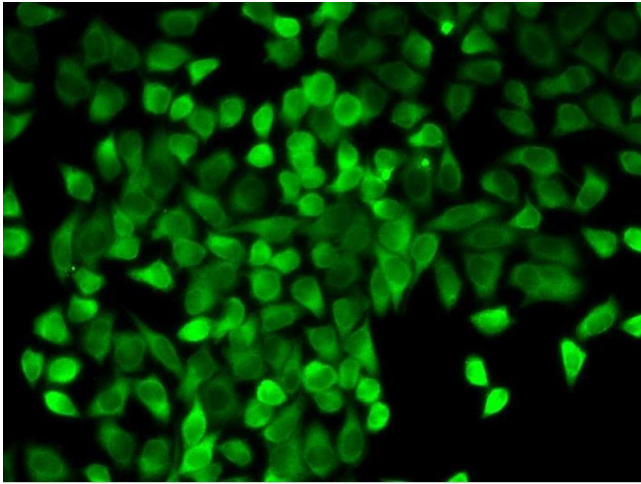
### Western Blotting

**Image 1.** Western blot analysis of extracts of various cell lines, using CASP3 antibody.



### Immunohistochemistry

**Image 2.**



### Immunofluorescence

**Image 3.** Immunofluorescence analysis of A549 cell using CASP3 antibody.

Please check the [product details page](#) for more images. Overall 12 images are available for ABIN3023067.