

## Basic Information

<b>Product Name</b>	Anti-pro Caspase 3/CASP3 Antibody (Clone#AOB-3)	
<b>Gene Name</b>	CASP3	
<b>Source</b>	Rabbit	
<b>Clonality</b>	Monoclonal	
<b>Isotype</b>	IgG	
<b>Species Reactivity</b>	human, mouse	
<b>Tested Application</b>	WB, ICC/IF, IHC, IP, FCM	
<b>Contents</b>	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.	
<b>Immunogen</b>	A synthesized peptide derived from human pro Caspase 3	
<b>Concentration</b>	500 ug/ml	
<b>Purification</b>	Affinity-chromatography	
<b>Observed MW</b>	35 kDa,(cleaved)20/17/12 kDa	
<b>Dilution Ratios</b>	Western blot (WB):	1:500-2000
	Immunohistochemistry (IHC):	1:50-200
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-200
	ImmunoPrecipitation (IP):	1:50
	Flow Cytometry (FCM):	1:50

## Storage

12 months from date of receipt, -20°C as supplied.

## Background Information

Caspase 3 is a caspase protein which interacts with Survivin, XIAP, CFLAR, Caspase 8, HCLS1, Deleted in Colorectal Cancer, TRAF3 and GroEL. This gene which is located on 4q35 encodes a protein that 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 that undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. 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. And the caspase-3 activation in heart failure sequentially cleaves SRF and generates a truncated

Product datasheet  
**Anti-pro Caspase 3/CASP3 Antibody**  
**(Clone#AOB-3)**  
**Catalog Number: BM3954**

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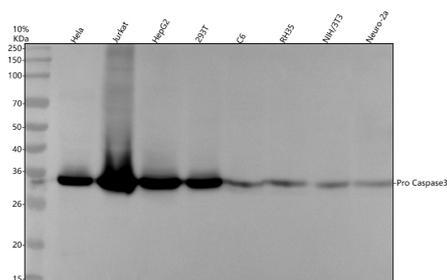
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SRF that appears to function as a dominant-negative transcription factor. Additionally, the caspase-3 influence on bone mineral density should be considered in any in vivo application of caspase-3 inhibitors to the treatment of human disease. In erythroid precursors undergoing terminal differentiation, Hsp70 prevents active CASP3 from cleaving GATA1 and inducing apoptosis.

## Reference

Anti-pro Caspase 3/CASP3 Antibody (Clone#AOB-3)被引用在25文献中。

## Selected Validation Data



Western blot analysis of anti-pro Caspase 3/CASP3 antibody (BM3954). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human HeLa whole cell lysates,

Lane 2: human Jurkat whole cell lysates,

Lane 3: human HepG2 whole cell lysates,

Lane 4: human 293T whole cell lysates,

Lane 5: rat C6 whole cell lysates,

Lane 6: rat RH35 whole cell lysates,

Lane 7: mouse NIH/3T3 whole cell lysates,

Lane 8: mouse Neuro-2a whole cell lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-pro Caspase 3/CASP3 antigen affinity purified monoclonal antibody (BM3954) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for pro Caspase 3/CASP3 at approximately 30 kDa. The expected band size for pro Caspase 3/CASP3 is at 35 kDa.

Product datasheet

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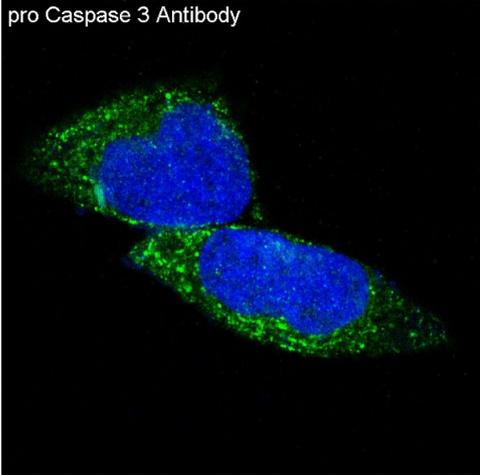
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pro Caspase 3 Antibody



Immunofluorescent analysis of A673 cells, using pro Caspase 3 Antibody.