

## Basic Information

<b>Product Name</b>	Anti-Caspase 3/CASP3 (p17) Antibody	
<b>Gene Name</b>	CASP3	
<b>Source</b>	Rabbit	
<b>Isotype</b>	IgG	
<b>Species Reactivity</b>	human	
<b>Tested Application</b>	WB, ICC/IF, FCM	
<b>Contents</b>	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg BSA and 50% glycerol.	
<b>Immunogen</b>	A synthetic peptide corresponding to a sequence of human Caspase-3(p17)/CASP3 (FRNLKYEVRNKNDLTREEIVELMR).	
<b>concentration</b>	500 ug/ml	
<b>Purification</b>	Immunogen affinity purified.	
<b>Observed MW</b>	35KD	
<b>Dilution Ratios</b>	Western blot(WB):	1:500-2000
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-400
	Flow cytometry (FCM):	1-3µg/1x10 <sup>6</sup> cells

## Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

## 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 SRF that appears to function as a dominant-negative transcription factor. Additionally, the caspase-3 influence on bone mineral absorbance 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-Caspase 3/CASP3 (p17) Antibody被引用在1文献中。

## Selected Validation Data

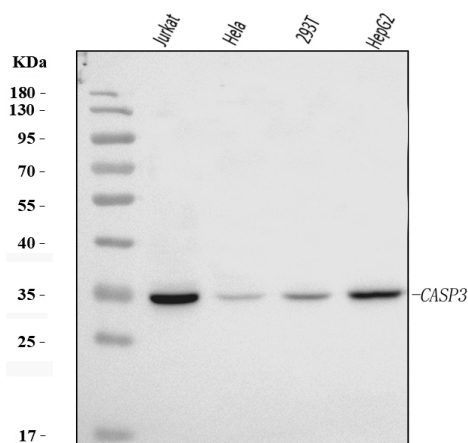


Figure 1. Western blot analysis of anti- CASP3(P17) Antibody (A00334-2). The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: Jurkat whole cell lysates,

Lane 2: HeLa whole cell lysates,

Lane 3: 293T whole cell lysates,

Lane 4: HepG2 whole cell lysates.

Use rabbit anti- CASP3 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for CASP3 at approximately 35KD. The expected band size for CASP3 is at 32KD.