

For Research Use Only

# Caspase 3(human specific) Monoclonal antibody



Catalog Number: 66470-1-Ig **66 Publications**

## Basic Information

<b>Catalog Number:</b> 66470-1-Ig	<b>GenBank Accession Number:</b> BC016926	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 836	<b>CloneNo.:</b> 1E7F9
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P42574	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:100-1:400 IF 1:50-1:500
<b>Isotype:</b> IgG2b	<b>Full Name:</b> caspase 3, apoptosis-related cysteine peptidase	
<b>Immunogen Catalog Number:</b> AG25029	<b>Calculated MW:</b> 277 aa, 32 kDa	
	<b>Observed MW:</b> 32-35 kDa, 19 kDa, 17 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, WB, ELISA	<b>Positive Controls:</b> WB : Jurkat cells, HEK-293 cells
<b>Cited Applications:</b> IF, IHC, WB	<b>IHC :</b> human breast cancer tissue,
<b>Species Specificity:</b> human	<b>IF :</b> HeLa cells,
<b>Cited Species:</b> human, rat, sheep, mouse, zebrafish, cow	

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

Casp3 (caspase 3), also named as CPP32, SCA-1 and Apopain, belongs to the peptidase C14A family. Caspase 3 is involved in the activation cascade of caspases responsible for apoptosis execution. At the onset of apoptosis it proteolytically cleaves poly(ADP-ribose) polymerase (PARP) at a '216-Asp|-Gly-217' bond. Caspase 3 cleaves and activates sterol regulatory element binding proteins (SREBPs) between the basic helix-loop-helix leucine zipper domain and the membrane attachment domain. Cleaves and activates caspase-6, -7 and -9. CASP3 is involved in the cleavage of huntingtin. This antibody is specific for human caspase 3, it can recognize the 32 kDa pro-caspase 3 as well as 17 and 19 kDa cleaved-caspase 3.

## Notable Publications

Author	Pubmed ID	Journal	Application
Junxia Hu	31580970	Biomed Pharmacother	WB
Genquan Yue	31702026	Mol Med Rep	WB
Ruizhi Yao	30231545	Int J Mol Sci	WB

## Storage

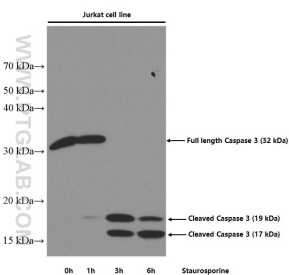
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

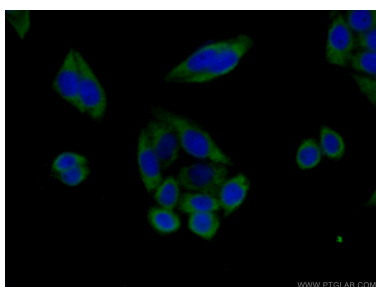
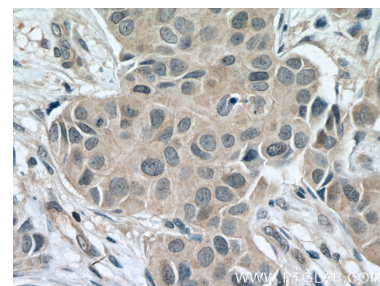
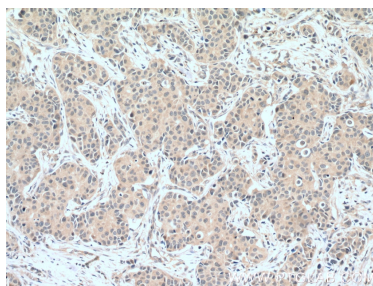
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## Selected Validation Data



Untreated and Staurosporine treated Jurkat cells were subjected to SDS PAGE followed by western blot with 66470-1-Ig (CASP3(human specific) antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 66470-1-Ig (Caspase 3(human specific) antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).