

bsm-61090R**[Primary Antibody]**

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Cleaved-Caspase 3 p17 Recombinant Rabbit mAb**— DATASHEET —****Host:** Rabbit**Isotype:** IgG**Clonality:** Recombinant**CloneNo.:** 13C12**GeneID:** 836**SWISS:** P42574**Target:** Cleaved-Caspase 3 p17**Immunogen:** A synthesized peptide derived from human Caspase 3: 1-175.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml

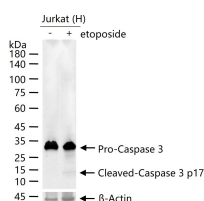
Storage: 0.01M TBS(pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Background: The caspase family of cysteine proteases play a key role in apoptosis. Caspase 3 is the most extensively studied apoptotic protein among caspase family members. Caspase 3 is synthesized as inactive pro enzyme that is processed in cells undergoing apoptosis by self proteolysis and/or cleavage by other upstream proteases (e.g. Caspases 8, 9 and 10). The processed form of Caspase 3 consists of large (17kDa) and small (12kDa) subunits which associate to form an active enzyme. Caspase 3 is cleaved at Asp28 Ser29 and Asp175 Ser176. The active Caspase 3 proteolytically cleaves and activates other caspases (e.g. Caspases 6, 7 and 9), as well as relevant targets in the cells (e.g. PARP and DFF). Alternative splicing of this gene results in two transcript variants which encode the same protein. In immunohistochemical studies Caspase 3 expression has been shown to be widespread but not present in all cell types (e.g. commonly reported in epithelial cells of skin, renal proximal tubules and collecting ducts). Differences in the level of Caspase 3 have been reported in cells of short lived nature (eg germinal centre B cells) and those that are long lived (eg mantle zone B cells). Caspase 3 is the predominant caspase involved in the cleavage of amyloid beta 4A precursor protein, which is associated with neuronal death in Alzheimer's disease.

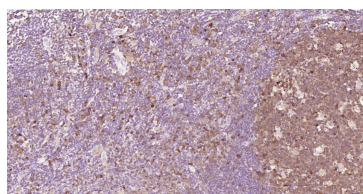
Applications: WB (1:500-2000)**IHC-P** (1:50-200)**IHC-F** (1:50-200)**IF** (1:50-200)**IP** (1:20-50)**Reactivity:** Human, Mouse, Rat

Predicted
MW.: 17/32 kDa

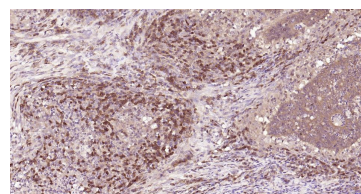
Subcellular
Location: Cytoplasm

— VALIDATION IMAGES —

Jurkat (H) cells were treated with or without etoposide treated (25uM) for 5 h, 25 µg total protein per lane of cell lysates (see on figure) probed with Cleaved-Caspase 3 p17 monoclonal antibody, unconjugated (bsm-61090R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Human Tonsil; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Cleaved-Caspase 3 p17 Monoclonal Antibody, Unconjugated(bsm-61090R) at 1:100 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Colon Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Cleaved-Caspase 3 p17 Monoclonal Antibody, Unconjugated(bsm-61090R) at 1:100 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.

— SELECTED CITATIONS —

- **[IF=7.7]** Xishuai Tong, et al. Angelica sinensis polysaccharides mitigate cadmium-induced apoptosis in layer chicken

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

chondrocytes by inhibiting the JNK signaling pathway. INT J BIOL MACROMOL. 2024 Oct;;137106 WB ;Chicken. 39486695

- **[IF=4.6]** Miaomiao Zhang. et al. Unlocking the Potential of Perillaldehyde: A Novel Mechanism for Chronic Myeloid Leukemia by Targeting HSP70. MOLECULES. 2025 May;30(11):2294 WB ;Human. 40509182
- **[IF=3.5]** Ruixue Wang. et al. RecQ protein-like 4 drives cisplatin chemosensitivity of cervical cancer cells by modulating annexin A2. DRUG DEVELOP RES. 2024 Oct;85(7):e70003 WB ;Human. 39404003
- **[IF=1.9]** Jiahui Wang. et al. Single atom-substituted gold nanoclusters for alleviating neural injury induced by deep hypothermic circulatory arrest. J THORAC DIS. 2025 Jun;17(6):4145 WB ;Rat. 40688276