PRODUCT DATA SHEET

Active Caspase-3 Monoclonal Antibody(5E1)

Catalog No.	IMB0019
Reactivity	Human;Mouse;Rat;Chicken
Applications	IF/ICC; WB; IHC-p
Gene Name	CASP3
Protein Name	Caspase3
Human Gene Id	836
Swiss-Prot	P42574
Formulation	PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.
Source	Monoclonal, Mouse
Dilution	IF: 1:50-200 WB: 1:500-1000 IHC: 1:100-200
PurIF:ication	The antibody was affinity-purIF:ied from mouse ascites by affinity-chromatography using epitope-specIF:ic immunogen.
Concentration	-
Storage&Stability	-20°C/1 year
Background	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.
Subcellular Location.	Cytoplasm.
BiowMW	-

Products Images:

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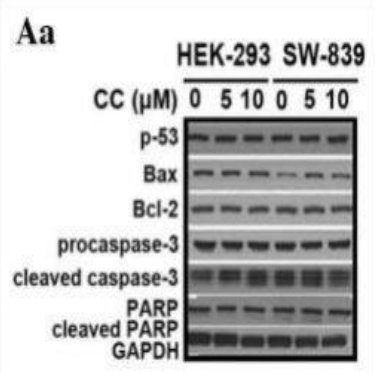
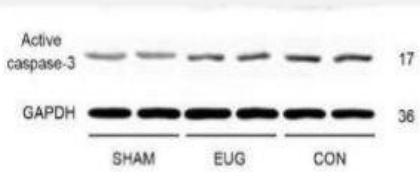
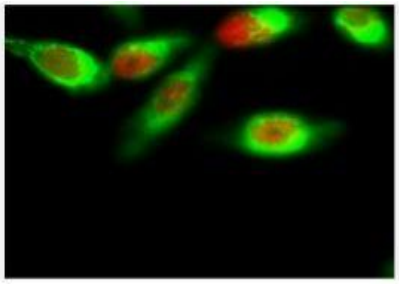


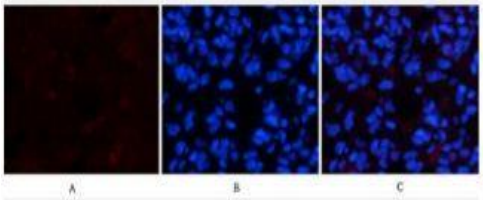
Chen, Xiao-Meng, et al. "Chelerythrine chloride induces apoptosis in renal cancer HEK-293 and SW-839 cell lines." Oncology letters 11.6 (2016): 3917-3924.



Fen, Wei, et al. "Eugenol protects the transplanted heart against ischemia/reperfusion injury in rats by inhibiting the inflammatory response and apoptosis." Experimental and therapeutic medicine 16.4 (2018): 3464-3470.



Immunofluorescence analysis of Hela cell. 1,FoxO1 (phospho Ser256) Polyclonal Antibody(red) was diluted at 1:200(4° overnight). Active Caspase-3 Monoclonal Antibody(5E1) (green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 594 Catalog:RS3611 was diluted at 1:1000(room temperature, 50min). Goat Anti Mouse Alexa Fluor 488 Catalog:RS3208 was diluted at 1:1000(room temperature, 50min).



Immunofluorescence analysis of rat-lung tissue. 1,Active Caspase-3 Monoclonal Antibody(5E1)(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B

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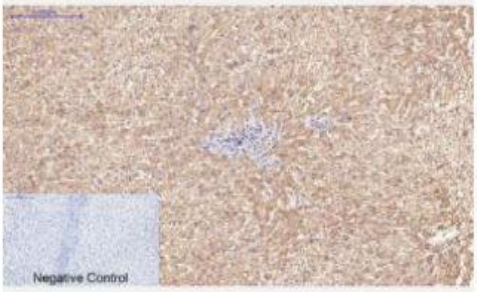
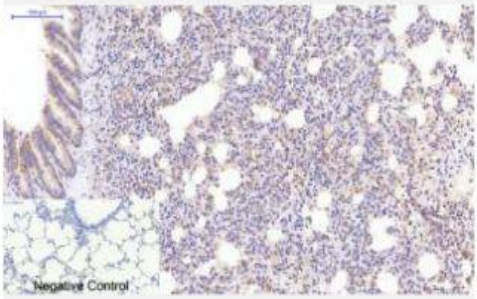
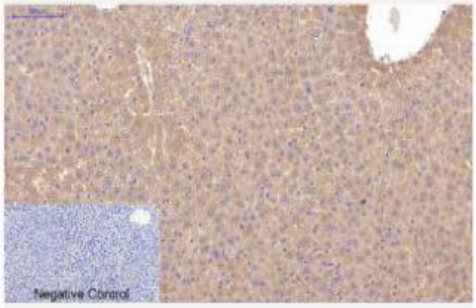


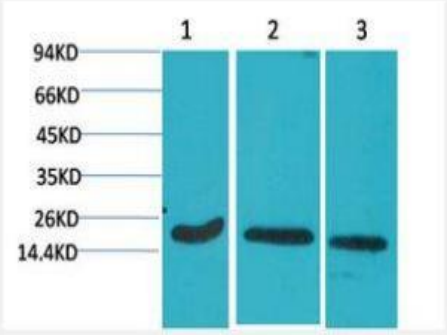
Immunohistochemical analysis of paraffin-embedded Human-liver tissue. 1,Active Caspase-3 Monoclonal Antibody(5E1) was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Rat-lung tissue. 1,Active Caspase-3 Monoclonal Antibody(5E1) was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Mouse-liver tissue. 1,Active Caspase-3 Monoclonal Antibody(5E1) was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Western blot analysis of 1) Hela, 2) 3T3, 3) Rat Brain Tissue using Active Caspase-3 Monoclonal Antibody.

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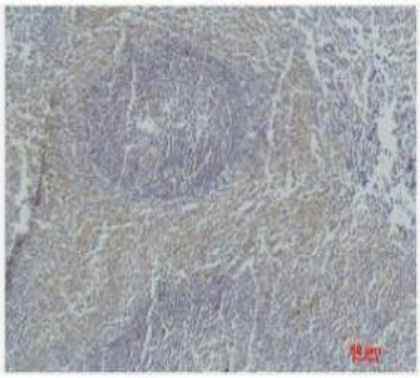
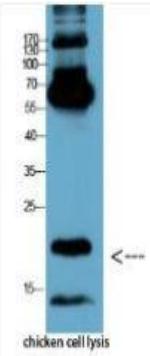


Immunohistochemical analysis of paraffin-embedded Human Tonsil Tissue using Active Caspase-3 Monoclonal Antibody.



Western Blot analysis of chicken cell lysis using Antibody diluted at 1:1000