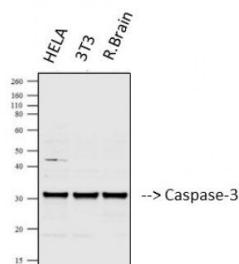
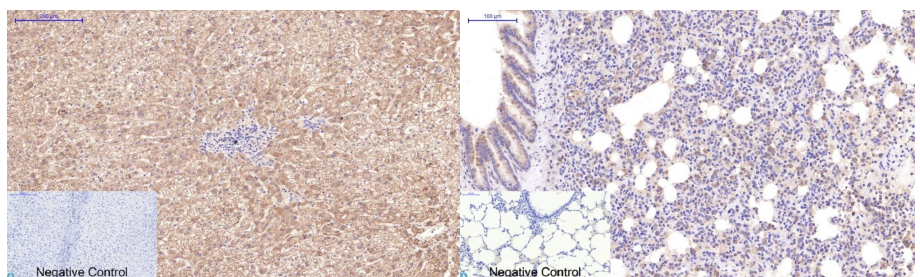


Cat. No:	MAB-94427
Conjugate:	Unconjugated
Size:	100 ug
Clone:	5E1
Concentration:	1mg/ml
Host:	Mouse
Isotype:	IgG1
Immunogen:	Recombinant Protein
Reactivity:	Avian, Human, Mouse, Rat
Applications:	Western Blot: 1:500-1000 Immunohistochemistry: 1:100-200 Immunofluorescence: 1:100
Molecular Weight:	31 kDa
Purification:	The antibody was affinity-purified from mouse ascites by affinity chromatography using epitope-specific immunogen.
Synonyms:	Caspase-3 CASP-3 Apopain Cysteine protease CPP32 CPP-32 Protein Yama SREBP cleavage activity 1 SCA-1 Caspase-3 subunit p17 Caspase-3 subunit p12
Background:	Active caspase-3 is a protein encoded by the CASP3 gene which is approximately 31,6 kDa. Active caspase-3 is localised to the cytoplasm. It is involved in the TNFR1 pathway, apoptosis modulation and signaling and respiratory electron transport. This protein falls under the cysteineaspartic acid protease family. It is a sequential activator of caspases and 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. Active caspase-3 is highly expressed in lung, spleen, heart, liver and kidney. Mutations in the CASP3 gene may result in bladder urothelial carcinoma and primary effusion lymphoma. Active Caspase 3 was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen. This antibody detects endogenous active caspase-3 protein.
Form:	Liquid
Buffer:	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage:	Store at -20°C, and avoid repeat freeze-thaw cycles.



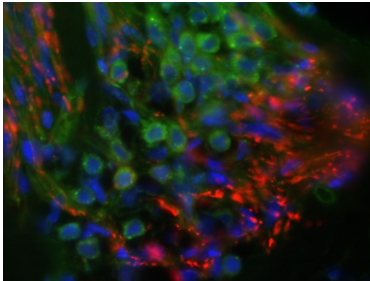
Western Blot analysis of 1. HELA 2.0 3T3



Immunohistochemical analysis of human-liver tissue. Anti-Active

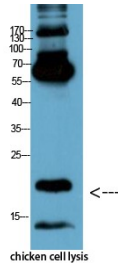
Immunohistochemical analysis of mouse lung tissue. Anti-Active Caspase-3 at

Rat Brain cells using Active Caspase-3
Monoclonal Antibody



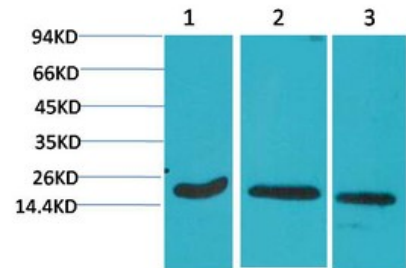
Application Immunofluorescence
Antibody Name Anti-cleaved-caspase-3
Primary Dilution 1:100
Primary Probing for 2' at 13krpm to
remove clumps and applied to sections.
Slides are left o/n at 4C
Secondary Antibody Anti-rabbit alexa
568
Reference Antibody N/A
Secondary Dilution 1:400
Secondary Probing RT for 2h - alexa 568
and alexa489 Tissue Cochlea
Tissue Processing 30% and then
embedded in OCT. Sections are cut at
12um onto gelatin-subbed slides and
stored at -20C.
Positive Control N/A
Negative Control N/A
Blocking 1-2h in 5% donkey serum/1%
BSA in PBS/triton.
Wash several times for 5' each in PBS
triton
Visualization Sections are mounted in a
fluorescence-protective medium
Specificity 3 Findings 1:100 seems to be
okay, doesn't give too much background
staining

Caspase-3 at 1:200 (4°C, overnight).
Antigen retrieval - Sodium Citrate pH6
(>98°C, 20min). Secondary - 1:200
(room temp, 30min). Negative control -
Secondary only



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

1:200 (4°C, overnight). Antigen retrieval
- Sodium Citrate pH6 (>98°C, 20min).
Secondary - 1:200 (room temp, 30min).
Negative control - Secondary only



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