Product datasheet

Anti-Caspase 3/CASP3 (p12 region) Antibody (Clone#GEA-3)

Catalog Number: *BM4620*

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Basic Information

Product Name	Anti-Caspase 3/CASP3 (p12 region) Antibody (Clone#GEA-3)
Gene Name	CASP3
Source	Rabbit
Clonality	Monoclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, ICC/IF, IP
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.
Immunogen	A synthesized peptide derived from human Caspase-3 p12
Concentration	500 ug/ml
Purification	Affinity-chromatography
Observed MW	35 kDa,(cleaved)20/17/12 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-200 Immunocytochemistry/Immunofluorescence (ICC/IF):1:50-200 ImmunoPrecipitation (IP): 1:50

Storage

12 months from date of receipt，-20℃ as supplied.

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

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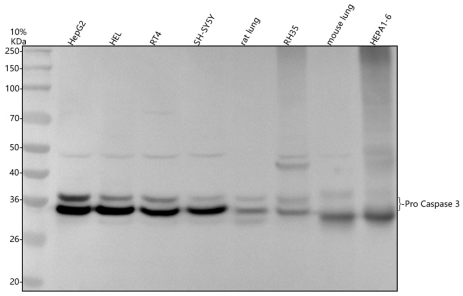
mineral density should be considered in any in vivo application of caspase-3 inhibitors to the treatment of human disease. In erythroid precursors undergoing terminal differentiation, Hsp70 prevents active CASP3 from cleaving GATA1 and inducing apoptosis.

Reference

Anti-Caspase 3/CASP3 (p12 region) Antibody (Clone#GEA-3)被引用在36文献中。

Selected Validation Data



Western blot analysis of anti-Caspase 3/CASP3 (p12) antibody (BM4620). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human HepG2 whole cell lysates,
Lane 2: human HEL whole cell lysates,
Lane 3: human RT4 whole cell lysates,
Lane 4: human SH-SY5Y whole cell lysates,
Lane 5: rat lung tissue lysates,
Lane 6: rat RH35 whole cell lysates,
Lane 7: mouse lung tissue lysates,
Lane 8: mouse HEPA1-6 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Caspase 3/CASP3 (p12) antigen affinity purified monoclonal antibody (BM4620) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Caspase 3/CASP3 (p12) at approximately 35 kDa. The expected band size for Caspase 3/CASP3 (p12) is at 32 kDa.

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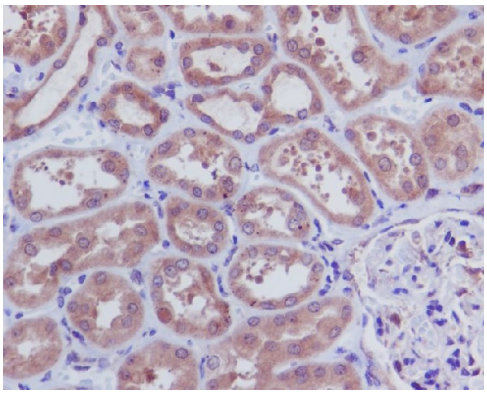
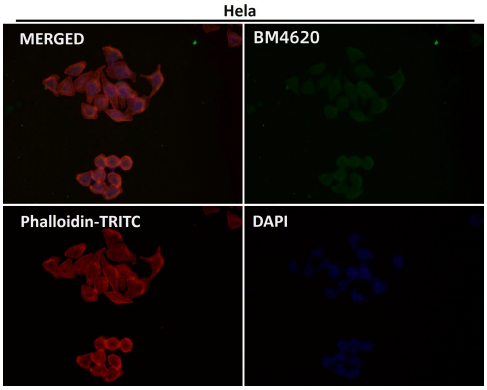


Immunohistochemical analysis of paraffin-embedded human kidney, using Caspase-3 p12 Antibody.



Immunofluorescent analysis using the Antibody.