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Anti-Caspase-3 p12 CASP3 Rabbit Monoclonal Antibody

Catalog Number: M00334-2

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Overview

Product Name	Anti-Caspase-3 p12 CASP3 Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Caspase-3 p12 CASP3 Rabbit Monoclonal Antibody catalog # M00334-2. Tested in WB, IHC, ICC/IF, IP applications. This antibody reacts with Human, Mouse, Rat.
Application	IP, IF, IHC, ICC, WB
Clonality	Monoclonal GEA-3
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P42574

Technical Details

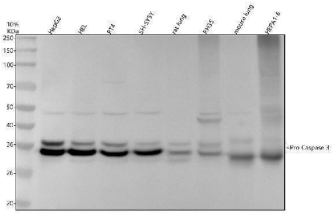
Immunogen	A synthesized peptide derived from human Caspase-3 p12
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5mg/ml
Purification	Affinity-chromatography
Suggested Dilutions	WB 1:500-2000

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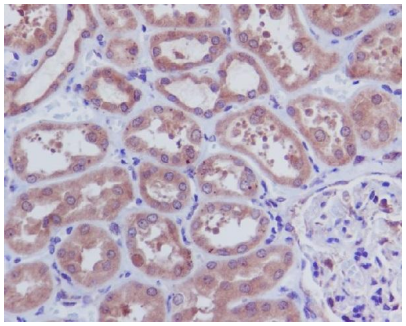
	IHC 1:50-200 ICC/IF 1:50-200 IP 1:50

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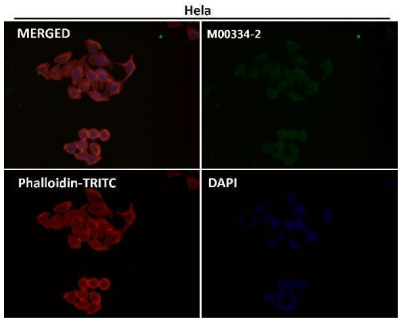
Anti-Caspase-3 p12 CASP3 Rabbit Monoclonal Antibody (M00334-2) Images



Western blot analysis of Caspase 3/CASP3 (p12) using anti-Caspase 3/CASP3 (p12) antibody (M00334-2). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. 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 nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Caspase 3/CASP3 (p12) antigen affinity purified monoclonal antibody (M00334-2) at 1: 500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. 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.



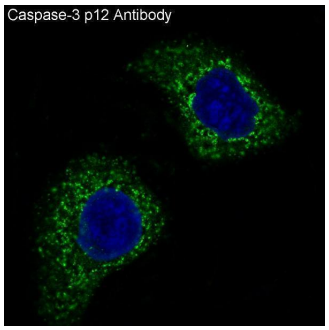
Immunohistochemical analysis of paraffin-embedded human kidney, using Caspase-3 p12 Antibody.

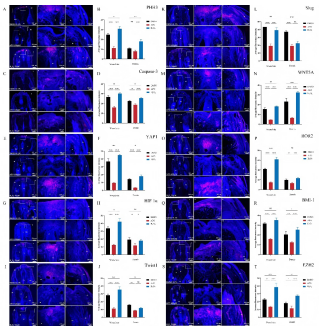


Immunofluorescent analysis using the Antibody at 1:50 dilution.

Immunofluorescent analysis of HeLa cells, using Caspase-3 p12 Antibody.

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H 2 O 2 promotes cell proliferation, suppresses apoptosis, and activates key regenerative pathways in regenerating S. tsinlingensis tails at 7 dpa. Immunofluorescence analysis shows H 2 O 2 elevates PHH3 (A , B) and reduces Caspase-3 (C , D), while APO exhibits opposing effects on Caspase-3. H 2 O 2 enhances expression of YAP1 (E , F), blastema-specific HIF-1alpha (G , H) and Twist1 (I , J), and differentially regulates Slug (K , L). H 2 O 2 maintains WNT5A (M , N) and upregulates ROR2 at wound sites (O , P), whereas APO suppresses these markers. Both BMI-1 (Q , R) and EZH2 (S , T) are upregulated by H 2 O 2 and downregulated by APO. All panels display representative images (left) and mean fluorescence intensity quantifications (right) in wound/blastema and dermal regions (n = 3 for each group). Scale bars: 200 um. Abbreviations: at, adipose tissue; ce, central vertebra; de, dermis; mu, muscle; sc, spinal cord. Data are mean ± SD. Low-magnification images and corresponding high-magnification images (Ab, Ad, Kb, Kd) were obtained from different individuals within the same experimental group, each selected for optimal representation of tissue morphology (low-magnification) or fluorescent labeling clarity (high-magnification). All key structural features were consistent across biological replicatesSource: Zhang Yiwen et al. Licensed under CC BY 4.0. PMID: 42231459.

56 Publications Citing This Product

1. PubMed ID: 31702040, Zhang Z,Wang J,Zhu Y,Zhang H,Wang H.Astragaloside IV alleviates myocardial damage induced by type 2 diabetes via improving energy metabolism.Mol Med Rep.2019 Nov;20(5):4612-4622.doi:10.3892/mmr.2019.10716.Epub 2019 Oct 1.PMID:31702040; PMCID:PMC6797977.

2. PubMed ID: -, Gang Li,Jing Zhou,Mengyu Sun,Juren Cen,Jing Xu,Role of luteolin extracted from Clerodendrum cyrtophyllum Turcz leaves in protecting HepG2 cells from TBHP-induced oxidative stress and its cytotoxicity, genotoxicity,Journal of Functional Foods, Volume 74, 2

3. PubMed ID: ,

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