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EB07286 - Goat Anti-Caspase 3 Antibody

Size: 100µg specific antibody in 200µl

Target Protein

Principal Names: CASP3, caspase 3, caspase 3, apoptosis-related cysteine protease, HGNC:1504, caspase 3, apoptosis-related cysteine peptidase, CPP32, CPP32B, SCA-1, PARP cleavage protease, SREBP cleavage activity 1, Yama, apopain, cysteine protease CPP32, procaspase3
Official Symbol: CASP3
Accession Number(s): NP_004337.2; NP_116786.1
Human GeneID(s): 836
Important Comments: This antibody is expected to recognise both reported isoforms (NP_004337.2 and NP_116786.1).

Immunogen

Peptide with sequence C-RDVSKEDHSKRS, from the internal region of the protein sequence according to NP_004337.2; NP_116786.1.

Please note the peptide is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:32000.
Western blot: Approx 32kDa band observed in lysates of cell line MOLT4 and in Mouse Liver lysates (calculated MW of 31.6kDa according to Human NP_004337.2 and 31.4kDa according to Mouse NP_033940.1, NP_001271338.1). An additional band of 65kDa was also consistently observed in MOLT4 and was successfully blocked by incubation with the immunizing peptide. Recommended concentration: 0.5-1µg/ml. Primary incubation 1 hour at room temperature.

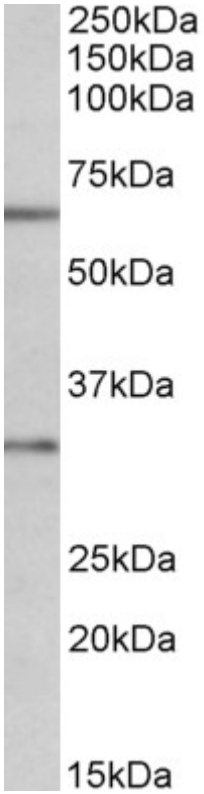
Immunofluorescence: Strong expression of the protein seen in the cytoplasm of U251 cells. Recommended concentration: 10µg/ml. This antibody has been successfully used in ICC on Rat: Hóngyi Zhào et al. (2018) PMID: 29853981.

Species Reactivity

Tested: Human, Mouse, Rat
Expected from sequence similarity: Human, Mouse, Rat, Dog

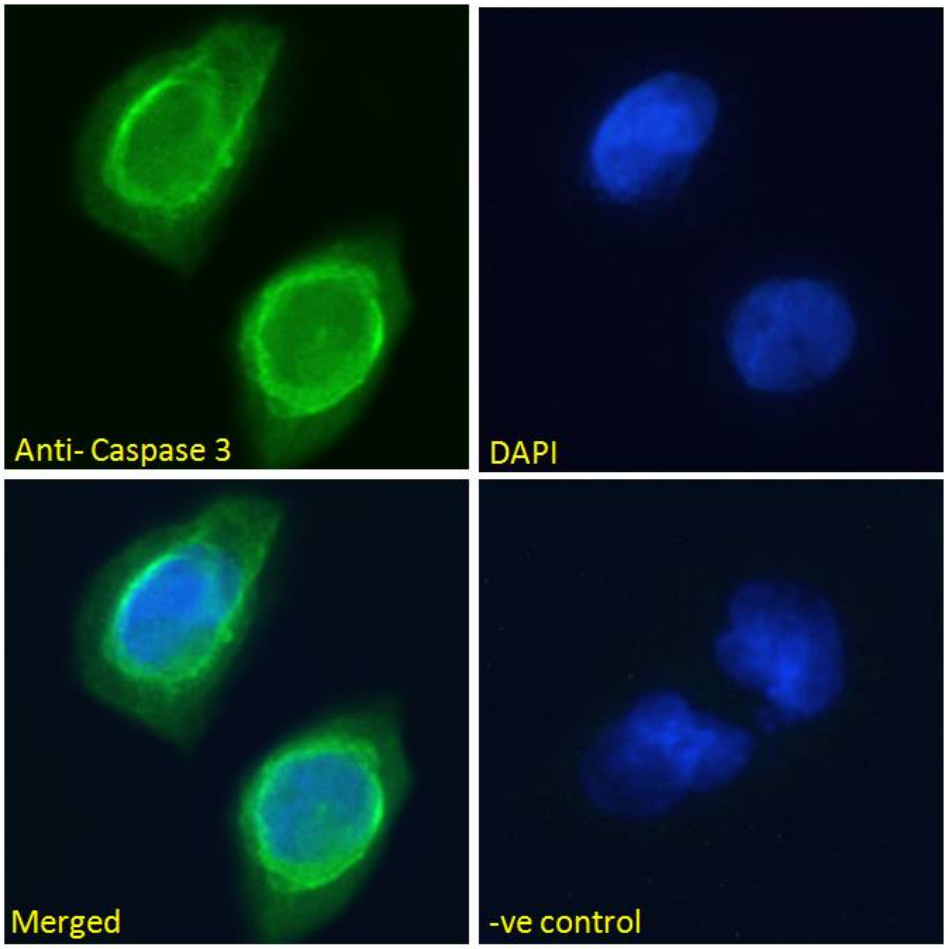
Specific Reference

This antibody has been successfully used in ICC on Rat:
Hóngyi Zhào, Yu Liu, Jing Zeng, Dandan Li, Weiwei Zhang, and Yonghua Huang
Troxerutin and Cerebroprotein Hydrolysate Injection Protects Neurovascular Units from Oxygen-Glucose Deprivation and Reoxygenation-Induced Injury In Vitro
Evidence-Based Complementary and Alternative Medicine, vol. 2018, Article ID 9859672, 10 pages, 2018
PMID: 29853981



EB07286 (1µg/ml) staining of MOLT4 lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

EB07286 (0.5µg/ml) staining of Mouse Liver lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



EB07286 Immunofluorescence analysis of paraformaldehyde fixed U251 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).