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**Research Use Only. Not for
diagnostic or therapeutic use.**

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
Trolox 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).