

Datasheet for ABIN3043217
anti-Caspase 7 antibody (Middle Region)



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2 Images

Overview

Quantity:	100 µg
Target:	Caspase 7 (CASP7)
Binding Specificity:	AA 237-255, Middle Region
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Caspase 7 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	Anti-Caspase-7(P11)/CASP7 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human Caspase-7(P11), different from the related mouse and rat sequences by two amino acids.
Sequence:	RGSWFVQALC SILEEHGKD
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-Caspase-7 (P11)/CASP7 Antibody (ABIN3043217). Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: Caspase 7 (CASP7)

Alternative Name: CASP7 ([CASP7 Products](#))

Background: Synonyms: Caspase-7, CASP-7, 3.4.22.60, Apoptotic protease Mch-3, CMH-1, ICE-like apoptotic protease 3, ICE-LAP3, Caspase-7 subunit p20, Caspase-7 subunit p11, CASP7, MCH3, Tissue Specificity: Highly expressed in lung, skeletal muscle, liver, kidney, spleen and heart, and moderately in testis. No expression in the brain.

Background: CASP7, Caspase-7, apoptosis-related cysteine peptidase, is a human protein encoded by the CASP7 gene. CASP7 orthologs have been identified in nearly all mammals for which complete genome data are available. CASP7 is a member of the caspase (cysteine aspartate protease) family of proteins, and has been shown to be an executioner protein of apoptosis. Using radiation hybrid mapping, the CASP7 gene was localized to human chromosome 10q25.1-q25.2. The orderly activation of CASP7 regulates microglia activation through a protein kinase C-delta (PRKCD)-dependent pathway.

Molecular Weight: 34 kDa

UniProt: [P55210](#)

Pathways: [Apoptosis](#), [Caspase Cascade in Apoptosis](#), [Positive Regulation of Endopeptidase Activity](#)

Application Details

Application Notes: Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human Western blot, 0.1-0.5 µg/mL, Human, Rat, Mouse

1. Burguillos, M. A., Deierborg, T., Kavanagh, E., Persson, A., Hajji, N., Garcia-Quintanilla, A., Cano, J., Brundin, P., Englund, E., Venero, J. L., Joseph, B. Caspase signalling controls microglia activation and neurotoxicity. *Nature* 472: 319-324, 2011. 2. Soung, Y. H., Lee, J. W., Kim, H. S., Park, W. S., Kim, S. Y., Lee, J. H., Park, J. Y., Cho, Y. G., Kim, C. J., Park, Y. G., Nam, S. W., Jeong, S. W., Kim, S. H., Lee, J. Y., Yoo, N. J., Lee, S. H. Inactivating mutations of CASPASE-7 gene in human cancers. *Oncogene* 22: 8048-8052, 2003. 3. Tiso, N., Pallavicini, A., Muraro, T., Zimbello, R., Apolloni, E., Valle, G., Lanfranchi, G., Danieli, G. A. Chromosomal localization of the human genes, CPP32, Mch2, Mch3, and Ich-1, involved in cellular apoptosis. *Biochem. Biophys. Res. Commun.* 225: 983-989, 1996.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by

Application Details

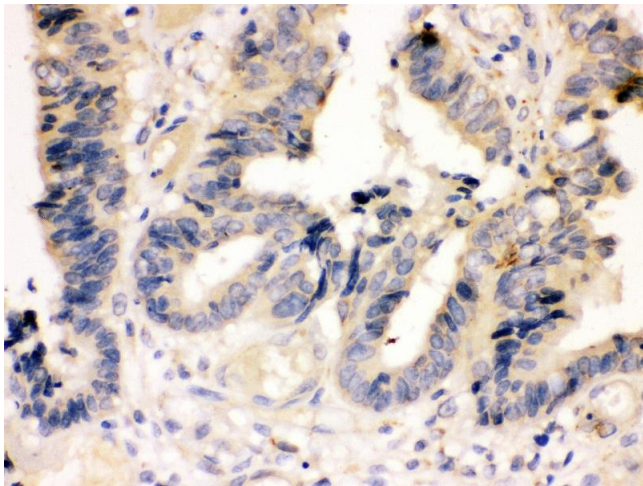
ABIN921231 in IHC(P).

Restrictions: For Research Use only

Handling

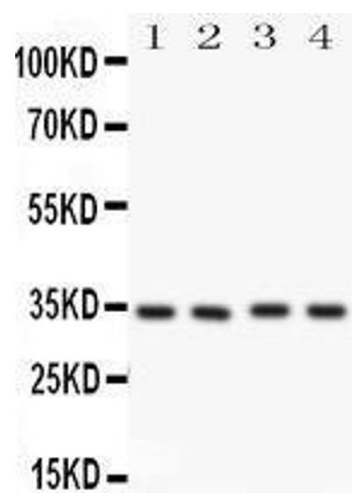
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na ₂ HPO ₄ .
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C, -20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Expiry Date:	12 months

Images



Immunohistochemistry

Image 1. Anti-Caspase-7(P11) antibody, IHC(P) IHC(P):
Human Intestinal Cancer Tissue



Western Blotting

Image 2. Anti-Caspase-7(P11) antibody, Western blotting All lanes: Anti CASP7(p11) at 0.5ug/ml Lane 1: HELA Whole Cell Lysate at 40ug Lane 2: MCF-7 Whole Cell Lysate at 40ug Lane 3: Rat Liver Tissue Lysate at 50ug Lane 4: Rat Kidney Tissue Lysate at 50ug Predicted bind size: 34KD Observed bind size: 34KD