

Datasheet for ABIN3042355

anti-Caspase 7 antibody (AA 117-198)**2** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	Caspase 7 (CASP7)
Binding Specificity:	AA 117-198
Reactivity:	Human, 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/CASP7 Antibody Picoband®
Immunogen:	E.coli-derived human CASP7 recombinant protein (Position: A117-D198). Human CASP7 shares 92.7% amino acid (aa) sequence identity with both mouse and rat CASP7.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Caspase-7/CASP7 Antibody Picoband® (ABIN3042355). Tested in IHC, WB applications. This antibody reacts with Human, 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.
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. Sequence Similarities: Belongs to the peptidase C14A family.
Molecular Weight:	34 kDa
Gene ID:	840
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 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. <i>Nature</i> 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. <i>Oncogene</i> 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. <i>Biochem. Biophys. Res. Commun.</i> 225: 983-989, 1996.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

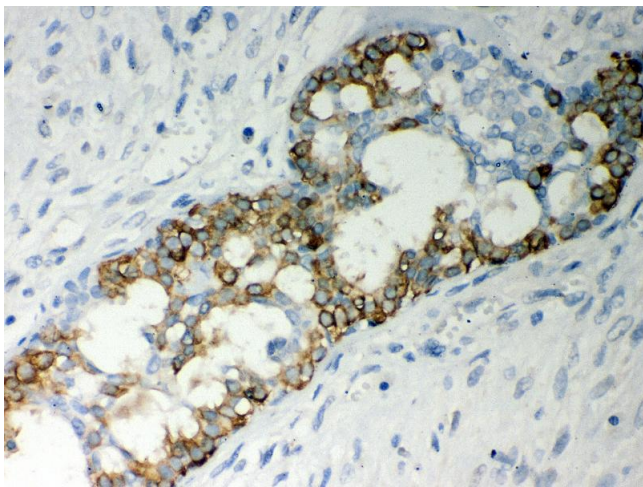
Application Details

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.

Images



Immunohistochemistry

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



Western Blotting

Image 2. Anti- Caspase-7 Picoband antibody, Western blotting All lanes: Anti Caspase-7 at 0.5ug/ml Lane 1: A549 Whole Cell Lysate at 40ug Lane 2: Rat Spleen Tissue Lysate at 50ug Lane 3: Rat Lung Tissue Lysate at 50ug Predicted bind size: 34KD Observed bind size: 34KD