

Datasheet for ABIN5518898
anti-Caspase 6 antibody (AA 194-293)



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1 Image

Overview

Quantity:	100 µg
Target:	Caspase 6 (CASP6)
Binding Specificity:	AA 194-293
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Caspase 6 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-Caspase-6/CASP6 Antibody Picoband®
Immunogen:	E. coli-derived human Caspase-6 recombinant protein (Position: A194-N293). Human Caspase-6 shares 95.9% and 93.9% amino acid (aa) sequence identity with mouse and rat Caspase-6, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Caspase-6/CASP6 Antibody Picoband® (ABIN5518898). Tested in 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 6 (CASP6)

Alternative Name: CASP6 ([CASP6 Products](#))

Background: Synonyms: Caspase-6, CASP-6, 3.4.22.59, Apoptotic protease Mch-2, Caspase-6 subunit p18, Caspase-6 subunit p11, CASP6, MCH2,
Tissue Specificity: Highly expressed in placenta, lung, kidney, testis and ovary. Weakly expressed in spleen and thymus. Not expressed in peripheral blood lymphocytes. Detected in hippocampus.
Background: Caspase 6 is an enzyme that in humans is encoded by the CASP6 gene. This gene encodes a protein that is a member of the cysteine-aspartic acid protease (caspase) family. Using radiation hybrid mapping, the CASP6 gene is localized to human chromosome 4q25-q26. It functions as a downstream enzyme in the caspase activation cascade. And CASP6 can cleave lamin A to its signature apoptotic fragment.

Molecular Weight: 33 kDa

Gene ID: 839

UniProt: [P55212](#)

Pathways: [Apoptosis](#), [Caspase Cascade in Apoptosis](#)

Application Details

Application Notes: Western blot, 0.1-0.5 µg/mL, Mouse, Rat, Human
1. Fernandes-Alnemri, T., Litwack, G., Alnemri, E. S. Mch2, a new member of the apoptotic Ced-3/Ice cysteine protease gene family. Cancer Res. 55: 2737-2742, 1995. 2. Nikolaev, A., McLaughlin, T., O'Leary, D. D. M., Tessier-Lavigne, M. APP binds DR6 to trigger axon pruning and neuron death via distinct caspases Nature 457: 981-989, 2009. 3. Orth, K., Chinnaiyan, A. M., Garg, M., Froelich, C. J., Dixit, V. M. The CED-3/ICE-like protease Mch2 is activated during apoptosis and cleaves the death substrate lamin A. J. Biol. Chem. 271: 16443-16446, 1996.

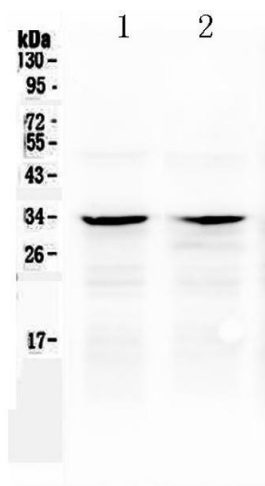
Comment: We recommend Enhanced Chemiluminescent Kit with anti-Rabbit IgG (ABIN921124) for Western blot.

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 .
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



Western Blotting

Image 1. Western blot analysis of Caspase-6 using anti-Caspase-6 antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50µg of sample under reducing conditions. Lane 1: rat kidney tissue lysate, Lane 2: mouse kidney tissue lysate. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-6 antigen affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL 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 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Caspase-6 at approximately 33KD. The expected band size for Caspase-6 is at 33KD.