

Anti-Caspase-6(P18)/CASP6 Antibody

Catalog Number: PA1441

About CASP6

Caspase 6 is an enzyme that in humans is encoded by the caspase 6 gene. This gene encodes a protein that is a member of the cysteine-aspartic acid protease (caspase) family. Using radiation hybrid mapping, the Caspase 6 gene is localized to human chromosome 4q25-q26. Caspase 6 functions as a downstream enzyme in the caspase activation cascade. And Caspase 6 can cleave lamin A to its signature apoptotic fragment.

Overview

Product Name	Anti-Caspase-6(P18)/CASP6 Antibody
Reactive Species	Human
Description	Boster Bio Anti-Caspase-6 (P18)/CASP6 Antibody catalog # PA1441. Tested in Flow Cytometry, IHC, WB applications. This antibody reacts with Human.
Application	Flow Cytometry, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na ₂ HPO ₄ .
Storage Instructions	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.
Host	Rabbit
Uniprot ID	P55212

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human Caspase-6(P18).
Predicted Reactive Species	Horse
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.

Suggested Dilutions

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Western blot, 0.1-0.5ug/ml, Human

Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Human, By Heat

Flow Cytometry, 1-3 ug/1x10⁶ cells, Human

Anti-Caspase-6(P18)/CASP6 Antibody (PA1441) Images

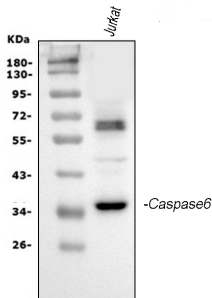


Figure 1. Western blot analysis of Caspase-6(P18) using anti-Caspase-6(P18) antibody (PA1441).

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 30 ug of sample under reducing conditions.

Lane 1: human Jurkat whole cell lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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(P18) antigen affinity purified polyclonal antibody (Catalog # PA1441) at 0.5 ug/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 1:5000 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(P18) at approximately 35 kDa. The expected band size for Caspase-6(P18) is at 35 kDa.

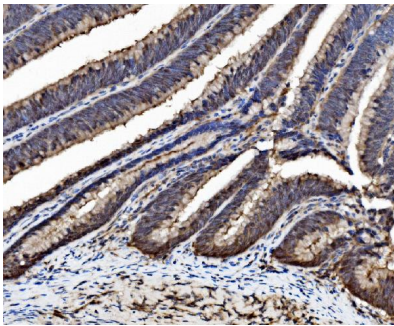


Figure 2. IHC analysis of Caspase-6(P18) using anti-Caspase-6(P18) antibody (PA1441).

Caspase-6(P18) was detected in a paraffin-embedded section of human colorectal adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Caspase-6(P18) Antibody (PA1441) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

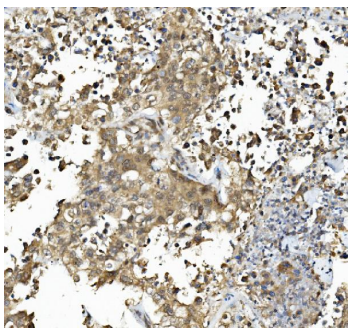
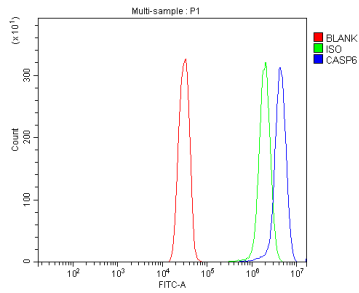


Figure 3. IHC analysis of Caspase-6(P18) using anti-Caspase-6(P18) antibody (PA1441).

Caspase-6(P18) was detected in a paraffin-embedded section of human pancreatic cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Caspase-6(P18) Antibody (PA1441) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

Figure 4. Flow Cytometry analysis of SiHa cells using anti-Caspase-6(P18) antibody (PA1441).



Overlay histogram showing SiHa cells stained with PA1441 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Caspase-6(P18) Antibody (PA1441, 1 ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

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