

Anti-Caspase-8 Monoclonal Antibody (5F7)

Catalog Number: M00042-3

About CASP8

Recognizes a 105kDa phosphoprotein, identified as retinoblastoma (Rb) gene product. It shows no cross reaction with p107 or p130. It reacts with the hyper-phosphorylated as well as the un (under) phosphorylated form of the Rb protein. Retinoblastoma gene product plays a key role in cell cycle control. It has been identified as a tumor suppressor gene whose loss of its function leads to tumor development. It is widely expressed in a variety of human tissues including breast, esophageal, squamous cell and cervical carcinoma.

Overview

Product Name	Anti-Caspase-8 Monoclonal Antibody (5F7)
Reactive Species	Human
Description	Boster Bio Anti-Caspase-8 Monoclonal Antibody (5F7) catalog # M00042-3. Tested in IP, IHC, WB applications. This antibody reacts with Human.
Conjugate	Biotin
Application	IP, IHC, WB
Clonality	Monoclonal 5F7
Formulation	Liquid. In PBS, pH 7.2, containing 50% glycerol.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Mouse
Uniprot ID	Q14790

Technical Details

Immunogen	C-terminal fragment of recombinant human caspase-8 (amino acids 176-460).
Predicted Reactive Species	Chimpanzee
Isotype	IgG1, kappa
Form	Liquid. In PBS, pH 7.2, containing 50% glycerol.
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Protein A-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:

Immunoprecipitation (1:50)

Western Blot (1µg/ml, ECL)

Suggested dilutions/conditions may not be available for all applications.

Optimal conditions must be determined individually for each application.

Anti-Caspase-8 Monoclonal Antibody (5F7) (M00042-3) Images

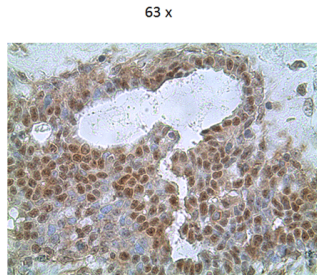


Figure 1. IHC analysis of CASP8 using anti-CASP8 antibody (M00042-3).
CASP8 was detected in paraffin-embedded section. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-CASP8 Antibody (M00042-3) overnight at 4°C. Biotinylated goat anti Mouse IgG antibody was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1021) with DAB as the chromogen.

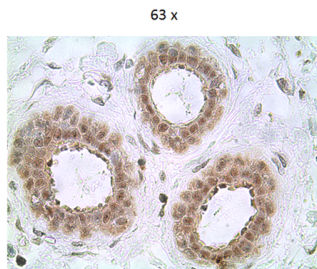


Figure 2. IHC analysis of CASP8 using anti-CASP8 antibody (M00042-3).
CASP8 was detected in paraffin-embedded section. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-CASP8 Antibody (M00042-3) overnight at 4°C. Biotinylated goat anti Mouse IgG antibody was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1021) with DAB as the chromogen.

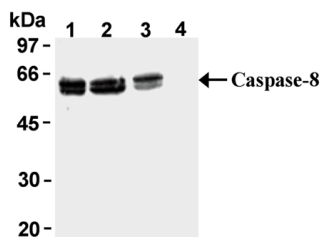
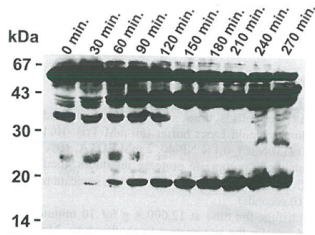


Figure 3. Western blot analysis of CASP8 using anti-CASP8 antibody (M00042-3).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
After Electrophoresis, 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-CASP8 antigen affinity purified polyclonal antibody (Catalog # M00042-3) 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-Mouse 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 # SA1021) with Tanon 5200 system. A specific band was detected for CASP8.

Figure 4. Western blot analysis of CASP8 using anti-CASP8 antibody (M00042-3).
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 50ug of sample under reducing conditions.
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3 Publications Citing This Product

1. PubMed ID: 28032492, Croton Tigilium Extract Induces Apoptosis via Bax/Bcl-2 Pathways in Human Lung Cancer A549 Cells
2. PubMed ID: 26261530, Protective effect of RIP and c-FLIP in preventing liver cancer cell apoptosis induced by TRAIL
3. PubMed ID: 20081872, Inhibition of proliferation of prostate cancer cell line, PC-3, in vitro and in vivo using (%u2212)-gossypol

Visit bosterbio.com/anti-caspase-8-monoclonal-antibody-5f7-m00042-3-boster.html to see all 3 publications.

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