

Anti-XIAP Antibody

Catalog Number: PA1512

About XIAP

BIRC4, baculoviral IAP repeat-containing protein 4 is also known as XIAP (X-linked inhibitor of apoptosis protein). The BIRC4 gene comprises 6 exons. This gene is mapped to chromosome Xq25. This gene encodes a protein that belongs to a family of apoptotic suppressor proteins. Members of this family share a conserved motif termed, baculovirus IAP repeat, which is necessary for their anti-apoptotic function. This protein functions through binding to tumor necrosis factor receptor-associated factors TRAF1 and TRAF2 and inhibits apoptosis induced by menadione, a potent inducer of free radicals, and interleukin 1-beta converting enzyme. This protein also inhibits at least two members of the caspase family of cell-death proteases, caspase-3 and caspase-7. Mutations in this gene are the cause of X-linked lymphoproliferative syndrome. Alternate splicing results in multiple transcript variants. Pseudogenes of this gene are found on chromosomes 2 and 11.

Overview

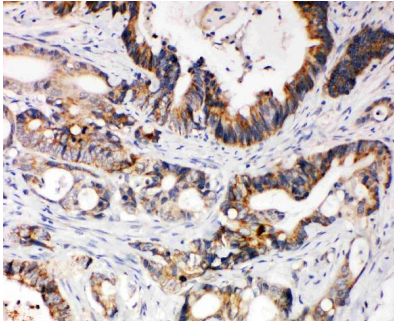
Product Name	Anti-XIAP Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-XIAP Antibody catalog # PA1512. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
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	P98170

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human XIAP, different from the related mouse sequence by two amino acids.
Predicted Reactive Species	Rabbit
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: Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, By Heat Western blot, 0.1-0.5ug/ml, Human, Rat, Mouse

Anti-XIAP Antibody (PA1512) Images



Anti-XIAP antibody, PA1512, IHC(P)
IHC(P): Human Intestinal Cancer Tissue

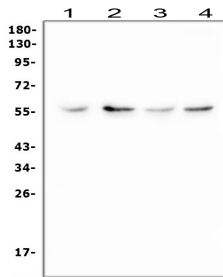


Figure 1. Western blot analysis of XIAP using anti-XIAP antibody (PA1512).

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.

Lane 1: human HepG2 whole cell lysate,

Lane 2: human Raji whole cell lysate,

Lane 3: rat C6 whole cell lysate,

Lane 4: mouse Neuro-2a whole cell 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-XIAP antigen affinity purified polyclonal antibody (Catalog # PA1512) 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 1:10000 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 XIAP at approximately 57KD. The expected band size for XIAP is at 57KD.

4 Publications Citing This Product

1. PubMed ID: 28300775, Wei H, Gao Z, Zheng L, Zhang C, Liu Z, Yang Y, Teng H, Hou L, Yin Y, Zou X0. Mar Drugs. 2017 Mar 16;15(3). pii: E77. doi: 10.3390/md15030077. Protective Effects of Fucoidan on Abeta25-35 and d-Gal-Induced Neurotoxicity in PC12 Cells and d-Gal-Induced...
2. PubMed ID: 23611778, Li G, Zhang S, Fang H, Yan B, Zhao Y, Feng L, Ma X, Ye X. Biochem Biophys Res Commun. 2013 May 17;434(4):809-14. Doi: 10.1016/J.Bbrc.2013.04.018. Epub 2013 Apr 20. Aspirin Overcomes Navitoclax-Resistance In Hepatocellular Carcinoma Cells Through S...
3. PubMed ID: 23391179, Wu L, Xi Z, Guo R, Liu S, Yang S, Liu D, Dong S, Guo D. Avian Pathol. 2013 Feb;42(1):32-7. Doi: 10.1080/03079457.2012.757289. Exogenous Arc Down-Regulates Caspase-3 Expression And Inhibits Apoptosis Of Broiler Chicken Cardiomyocytes Exposed To Hyd...

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