Product datasheet

Anti-BAK/BAK1 Antibody

Catalog Number: *PB0506*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-BAK/BAK1 Antibody
Gene Name	BAK1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, ICC/IF, FCM
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human BAK recombinant protein (Position: A22-S211). Human BAK shares 78.3 % amino acid (aa) sequence identity with mouse BAK.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	23-25 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow Cytometry (Fixed): 1:50-200 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

BAK, officially called Bcl2 antagonist killer, is a protein that in humans, encoded by the BAK gene. The BAK protein is a pro-apoptotic member of the Bcl-2 gene family which is involved in initiating apoptosis. BAK gene spans 7.6 kb and contains 6 exons. By Southern blot analysis of genomic DNA from human/rodent somatic cell hybrids, BAK gene is localized to chromosome 6. This protein localizes to mitochondria, and functions to induce apoptosis. It interacts with and accelerates the opening of the mitochondrial voltage-dependent anion channel, which leads to a loss in membrane potential and the release of cytochrome. This protein also interacts with the tumor suppressor P53 after exposure to cell

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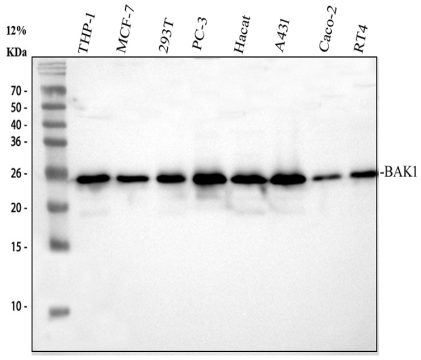
stress.

Reference

Anti-BAK/BAK1 Antibody被引用在1文献中。

Selected Validation Data



Western blot analysis of BAK/BAK1 using anti-BAK/BAK1 antibody (PB0506). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human THP-1 whole cell lysates,
Lane 2: human MCF-7 whole cell lysates,
Lane 3: human 293T whole cell lysates,
Lane 4: human PC-3 whole cell lysates,
Lane 5: human Hacat whole cell lysates,
Lane 6: human A431 whole cell lysates,
Lane 7: human Caco-2 whole cell lysates,
Lane 8: human RT4 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-BAK/BAK1 antigen affinity purified polyclonal antibody (PB0506) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for BAK/BAK1 at approximately 23 kDa. The expected band size for BAK/BAK1 is at 23 kDa.

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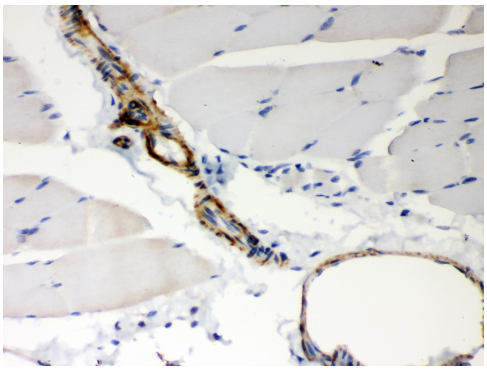
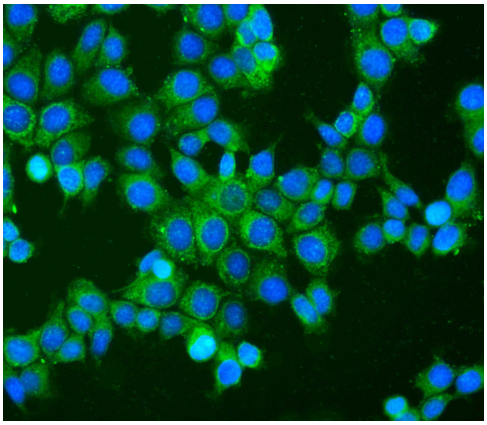
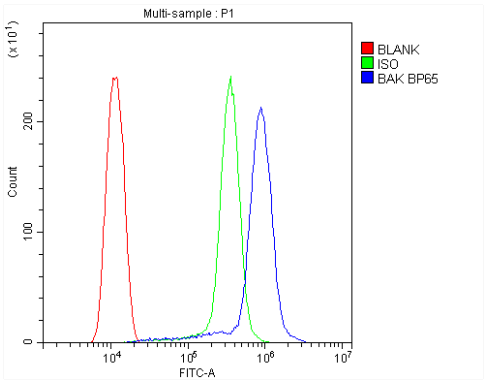


IHC analysis of BAK/BAK1 using anti-BAK/BAK1 antibody (PB0506). BAK/BAK1 was detected in a paraffin-embedded section of rat skeletal muscle tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-BAK/BAK1 Antibody (PB0506) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.



ICC/IF analysis of BAK/BAK1 using anti-BAK/BAK1 antibody (PB0506). BAK/BAK1 was detected in an immunocytochemical section of MCF-7 cells. The section was incubated with rabbit anti-BAK/BAK1 Antibody (PB0506) at a dilution of 1:100. Fluoro488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



Flow Cytometry analysis of THP-1 cells using anti-BAK/BAK1 antibody (PB0506).
Overlay histogram showing THP-1 cells stained with PB0506 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-BAK/BAK1 Antibody (PB0506) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.