

## Basic Information

|                           |  |            |
|---------------------------|--|------------|
| <b>Product Name</b>       | Anti-BAK/BAK1 Antibody   |            |
| <b>Gene Name</b>          | BAK1   |            |
| <b>Source</b>             | Rabbit   |            |
| <b>Clonality</b>          | Polyclonal   |            |
| <b>Isotype</b>            | IgG  |            |
| <b>Species Reactivity</b> | human, mouse, rat  |            |
| <b>Tested Application</b> | WB, IHC, ICC/IF  |            |
| <b>Contents</b>           | 500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.   |            |
| <b>Immunogen</b>          | E.coli-derived human GAPDH recombinant protein (Position: N136-E335). Human GAPDH shares 95% and 94.5% amino acid (aa) sequence identity with mouse and rat GAPDH, respectively.   |            |
| <b>Concentration</b>      | 500 ug/ml  |            |
| <b>Purification</b>       | Immunogen affinity purified.   |            |
| <b>Observed MW</b>        | 23-25 kDa  |            |
| <b>Dilution Ratios</b>    | Western blot (WB):   | 1:500-2000 |
|                           | Immunohistochemistry (IHC):  | 1:50-400   |
|                           | Immunocytochemistry/Immunofluorescence (ICC/IF):   | 1:50-400   |
|                           | (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°C as supplied.

## Background Information

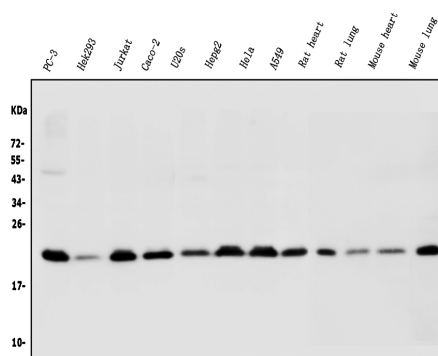
The protein encoded by this gene belongs to the BCL2 protein family. BCL2 family members form oligomers or heterodimers and act as anti- or pro-apoptotic regulators that are involved in a wide variety of cellular activities. This protein localizes to mitochondria, and functions to induce apoptosis. It 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 c. This protein also interacts with the tumor suppressor P53 after exposure to cell stress. [provided by

RefSeq, Jul 2008]

## Reference

Anti-BAK/BAK1 Antibody被引用在3文献中。

## Selected Validation Data



Western blot analysis of BAK/BAK1 using anti-BAK/BAK1 antibody (BA0411). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human PC-3 whole cell lysates,

Lane 2: human HEK293 whole cell lysates,

Lane 3: human Jurkat whole cell lysates,

Lane 4: human CACO-2 whole cell lysates,

Lane 5: human U2OS whole cell lysates,

Lane 6: human HEPG2 whole cell lysates,

Lane 7: human HELA whole cell lysates,

Lane 8: human A549 whole cell lysates,

Lane 9: rat heart tissue lysates,

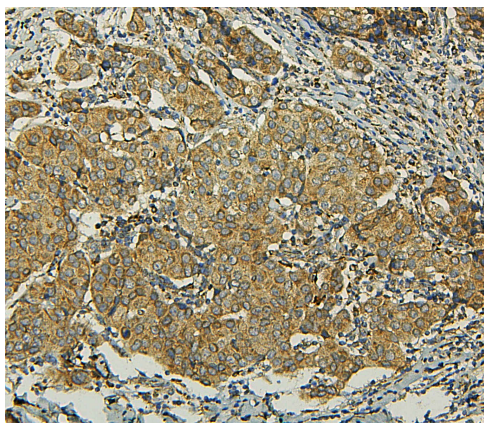
Lane 10: rat lung tissue lysates,

Lane 11: mouse heart tissue lysates,

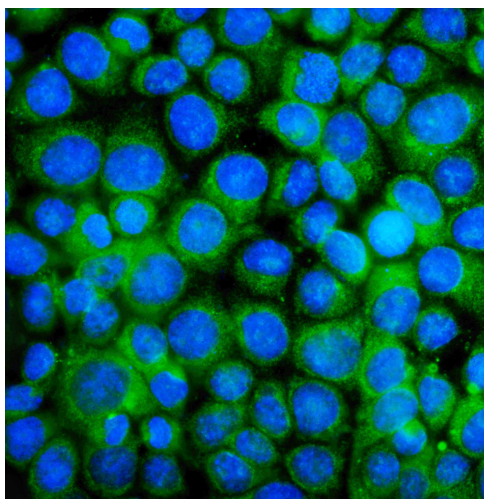
Lane 12: mouse lung tissue lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-BAK/BAK1 antigen affinity purified polyclonal antibody (BA0411) 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 23-25 kDa. The expected band size for BAK/BAK1 is at 23 kDa.



IHC analysis of BAK/BAK1 using anti-BAK/BAK1 antibody (BA0411). BAK/BAK1 was detected in a paraffin-embedded section of human mammary cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-BAK/BAK1 Antibody (BA0411) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.



ICC/IF analysis of BAK/BAK1 using anti-BAK/BAK1 antibody (BA0411). BAK/BAK1 was detected in an immunocytochemical section of MCF-7 cells. The section was incubated with rabbit anti-BAK/BAK1 Antibody (BA0411) 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).