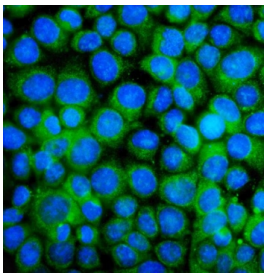
BAK Antibody (R30507)

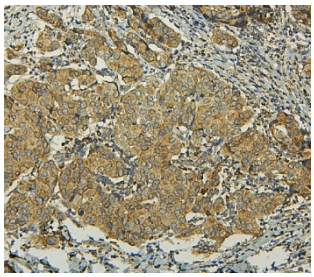
Catalog No.	Formulation	Size
R30507	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

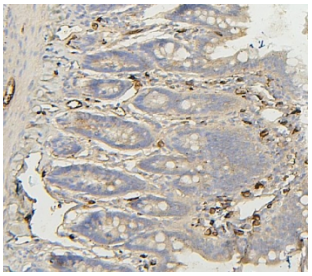
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	Q16611
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 1-2ug/ml Immunofluorescence: 2-4ug/ml
Limitations	This BAK antibody is available for research use only.



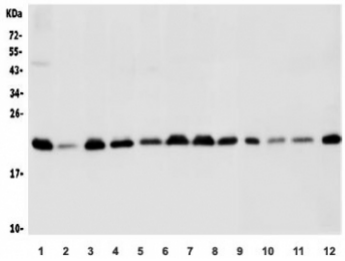
Immunofluorescent staining of FFPE human MCF7 cells with BAK antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



IHC staining of FFPE human breast cancer with BAK antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat intestine with BAK antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human 1) PC-3, 2) HEK293, 3) Jurkat, 4) Caco-2, 5) U-2 OS, 6) HepG-2, 7) HeLa, 8) A549, 9) rat heart, 10) rat lung, 11) mouse heart and 12) mouse lung lysate with BAK antibody. Expected molecular weight ~23 kDa.

Description

Bcl2 antagonist killer is a protein that in humans, encoded by the BAK gene. The protein is a pro-apoptotic member of the Bcl-2 gene family which is involved in initiating apoptosis. The gene spans 7.6 kb and contains 6 exons. By Southern blot analysis of genomic DNA from human/rodent somatic cell hybrids, the 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. BAK also interacts with the tumor suppressor P53 after exposure to cell stress.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the BAK antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the middle region of human BAK (QVGRQLALIGDDINRRYDSEFQ) was used as the immunogen for this BAK antibody.

Storage

After reconstitution, the BAK antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
Copyright © NSJ Bioreagents. All rights reserved.