

Anti-BAK1 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse (predicted:Rat)
Molecular Weight:	Theoretical: 23 kDa. Actual: 23 kDa.
Purification:	Protein A purified

Applications

1. Tissue/cell: human colon carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-Bak Polyclonal Antibody, Unconjugated (TMAB-00183) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAb staining.

2. Sample: Lung (Mouse) Lysate at 30 µg
 Primary: Anti-Bak (TMAB-00183) at 1:300 dilution;
 Secondary: HRP conjugated Goat-Anti-Rabbit IgG (bse-0295G) at 1: 5000 dilution;
 Predicted band size: 23 kDa
 Observed band size: 23 kDa

3. Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-Bak Polyclonal Antibody, Unconjugated (TMAB-00183) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody and DAb staining.

Verified Activity:

4. Blank control: Hela (blue). Primary Antibody: Rabbit Anti-Bak antibody, Dilution: 1 µg in 100 µL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG (orange), used under the same conditions); Secondary Antibody: Goat anti-rabbit IgG-Pe (white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.

Protocol

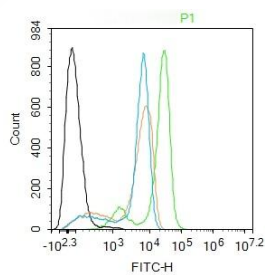
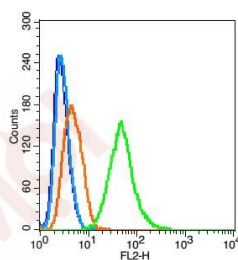
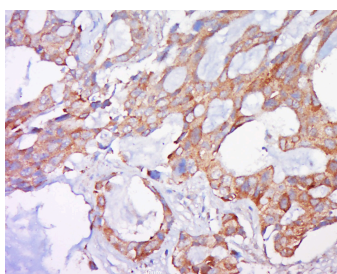
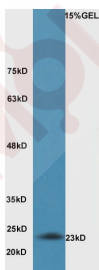
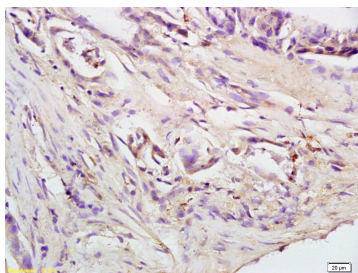
The cells were fixed with 2% paraformaldehyde (10 min), then permeabilized with 90% ice-cold methanol for 30 min on ice. Antibody (TMAB-00183, 1 µg/1x10⁶ cells) were incubated for 30 min on the ice, followed by 1 X PBS containing 0.5% BSA + 10% goat serum (15 min) to block non-specific protein-protein interactions. Then the Goat Anti-rabbit IgG/PE antibody was added into the blocking buffer mentioned above to react with the primary antibody of TMAB-00183 at 1/200 dilution for 30 min on ice.

5. Blank control: THP-1. Primary Antibody (green line): Rabbit Anti-Bak antibody (TMAB-00183) Dilution: 2 µg/10⁶ cells;
 Isotype Control Antibody (orange line): Rabbit IgG.
 Secondary Antibody: Goat anti-rabbit IgG-FITC
 Dilution: 1 µg/test.

Protocol

The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 0.1% PBST methanol for 20 min at room temperature. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min

at room temperature.



Application: FCM,IF,IHC-Fr,IHC-P,WB

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 1μg/Test

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: mouse Bak
Antigen Species:	Mouse
Gene ID:	12018
Uniprot ID:	O08734
Synonyms:	CDN1;NBak;BCL2-antagonist/killer 1;Cell death inhibitor 1;BAK 1;Pro apoptotic protein BAK;MGC3887;BAK like;BCL2L7;Bak NT;CDN 1;BAK1;Bcl2 like 7 Protein;MGC117255;Bcl2 homologous antagonist killer;Bcl 2 homologous antagonist/killer;BAK;Apoptosis Regulator Bak;Bcl 2 like 7 protein
Biology Area:	Bcl2 Family

Research Background

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]

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