

## Product datasheet

# Anti-Bak antibody [AT38E2] ab104124

★★★★☆ 2 Abreviews 3 References 3 Images

### Overview

<b>Product name</b>	Anti-Bak antibody [AT38E2]
<b>Description</b>	Mouse monoclonal [AT38E2] to Bak
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> WB, ELISA, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human
<b>Immunogen</b>	Recombinant fragment corresponding to amino acids 29-187 of Human Bak, purified from E. coli.
<b>Positive control</b>	Mouse lung lysate; HeLa cells

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.1% Sodium Azide Constituents: PBS, pH 7.4
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	AT38E2
<b>Isotype</b>	IgG2a
<b>Light chain type</b>	kappa

### Applications

Our [Abpromise guarantee](#) covers the use of **ab104124** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

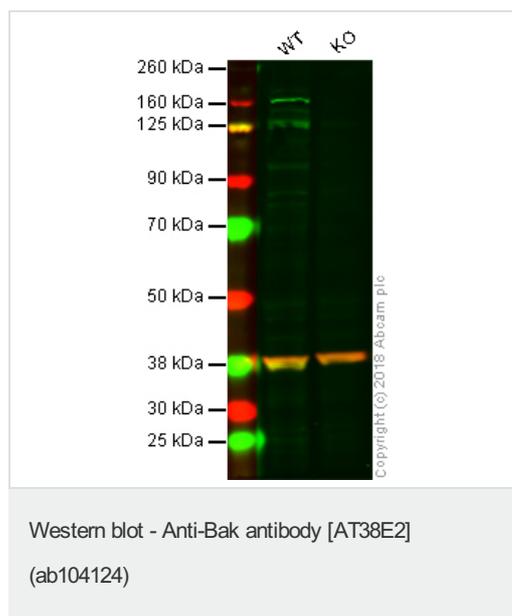
Application	Abreviews	Notes
WB	★★★★☆	1/250 - 1/500. Predicted molecular weight: 23 kDa.

Application	Abreviews	Notes
ELISA		1/250.
ICC/IF		1/250 - 1/500.

## Target

<b>Function</b>	In the presence of an appropriate stimulus, accelerates programmed cell death by binding to, and antagonizing the anti-apoptotic action of BCL2 or its adenovirus homolog E1B 19k protein. Low micromolar levels of zinc ions inhibit the promotion of apoptosis.
<b>Tissue specificity</b>	Expressed in a wide variety of tissues, with highest levels in the heart and skeletal muscle.
<b>Sequence similarities</b>	Belongs to the Bcl-2 family.
<b>Domain</b>	Intact BH3 motif is required by BIK, BID, BAK, BAD and BAX for their pro-apoptotic activity and for their interaction with anti-apoptotic members of the Bcl-2 family.
<b>Cellular localization</b>	Mitochondrion membrane.

## Images

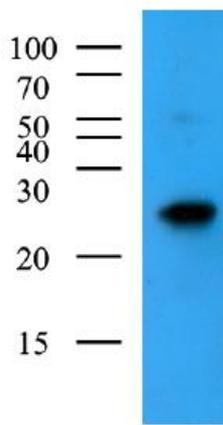


**Lane 1:** Wild-type HAP1 whole cell lysate (20 µg)

**Lane 2:** BAK knockout HAP1 whole cell lysate (20 µg)

**Lanes 1 - 2:** Merged signal (red and green). Green - ab104124 observed at 0 kDa. Red - loading control, ab181602, observed at 37 kDa.

ab104124 was found to be non-specific when BAK knockout samples were used. Wild-type and BAK knockout samples were subjected to SDS-PAGE. Ab104124 and ab181602 (Rabbit anti-GAPDH loading control) were incubated overnight at 4°C at 1/250 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) preabsorbed ab216772 and Goat anti-Rabbit IgG H&L (IRDye® 680RD) preabsorbed ab216777 secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Bak antibody [AT38E2]  
(ab104124)

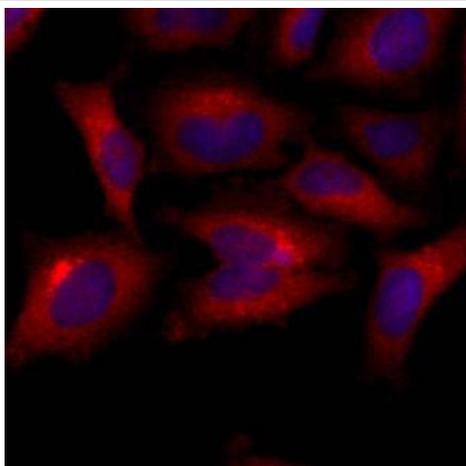
Anti-Bak antibody [AT38E2] (ab104124) at  
1/500 dilution + Mouse lung lysate at 35 µg

**Secondary**

Goat anti-mouse HRP conjugate

Developed using the ECL technique.

**Predicted band size:** 23 kDa



Immunocytochemistry/ Immunofluorescence - Anti-  
Bak antibody [AT38E2] (ab104124)

Immunofluorescence staining of Bak in HeLa  
cells using Hoechst 3342 (Blue) for nucleus  
staining and ab104124 antibody (1/500) with  
Texas Red (Red).

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