

Anti-BAK1 Antibody (5Y66)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	5Y66
Purification:	Affinity-chromatography

Applications

1. Western Blot

-Positive WB detected in: Hela whole cell lysate, MCF-7 whole cell lysate, THP-1 whole cell lysate, 293 whole cell lysate, A549 whole cell lysate, K562 whole cell lysate, Colo320 whole cell lysate

-All lanes: BAK1 antibody at 0.9µg/ml

-Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution

-Predicted band size: 24, 17 KDa

-Observed band size: 24 KDa

2. IHC image of TMAH-00103 diluted at 1:90 and staining in paraffin-embedded human lymph node tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.

3. IHC image of TMAH-00103 diluted at 1:90 and staining in paraffin-embedded human endometrial cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.

4. Immunoprecipitating BAK1 in HEK293 whole cell lysate

-Lane 1: Rabbit control IgG instead of TMAH-00103 in HEK293 whole cell lysate.

For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)

-Lane 2: TMAH-00103 (3µg) + HEK293 whole cell lysate (500µg)

-Lane 3: HEK293 whole cell lysate (20µg)

5. Overlay histogram showing Hela cells stained with TMAH-00103 (red line) at 1:50. The cells were fixed with 70% Ethylalcohol (18h) and then permeabilized with 0.3% Triton X-100 for 2 min. The cells were then incubated in 1x PBS /10% normal goat serum to block non-specific protein-protein interactions followed by primary antibody for 1 h at 4°C. The secondary antibody used was FITC goat anti-rabbit IgG (H+L) at 1/200 dilution for 1 h at 4°C. Control antibody (green line) was used under the same conditions. Acquisition of >10,000 events was performed.

Verified Activity:

A DRUG SCREENING EXPERT

Application: ELISA,FCM,IHC,IP,WB

Recommended WB:1:500-1:5000; IHC:1:50-1:200; IP:1:200-1:1000.

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: A synthetic peptide: Human BAK1

Antigen Species: Human

Gene ID: 578

Uniprot ID: Q16611

Synonyms: CDN1;BAK 1;Bcl-2 homologous antagonist/killer;Bcl-2-like protein 7;BCL2L7;Bcl2-L-7; Apoptosis regulator BAK;BAK

Biology Area: Cell Biology

Research Background

Plays a role in the mitochondrial apoptotic process. Upon arrival of cell death signals, promotes mitochondrial outer membrane (MOM) permeabilization by oligomerizing to form pores within the MOM. This releases apoptogenic factors into the cytosol, including cytochrome c, promoting the activation of caspase 9 which in turn processes and activates the effector caspases.

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