

Human BAK antibody

Catalog Number: ATGA0183

PRODUCT INFORMATION

Catalog number

ATGA0183

Clone No.

AT38E2

Product type

Monoclonal Antibody

UnitProt No.

Q16611

NCBI Accession No.

NP_001179

Alternative Names

BCL2-antagonist/killer 1, Apoptosis regulator BAK, BAK, BAK-LIKE, Bcl-2 homologous antagonist/killer, Bcl2-L-7, BAK-1, BAK 1, BAK like, Bak NT, BAK1, Bcl 2 homologous antagonist/killer, Bcl 2 like 7 protein, Bcl2 homologous antagonist killer, Bcl2 like 7 Protein, BCL2-antagonist/killer 1, BCL2L7, CDN 1, CDN1, Cell death inhibitor 1, MGC117255, MGC3887, NBak, Pro apoptotic protein BAK

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human BAK1 (29-187aa) purified from E.coli

Isotype

IgG2a kappa

Purification Note

By protein-G affinity chromatography

Application

ELISA, WB, ICC/IF, FACS

Usage

The antibody has been tested by ELISA, Western blot, ICC/IF and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain

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optimal results.

Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

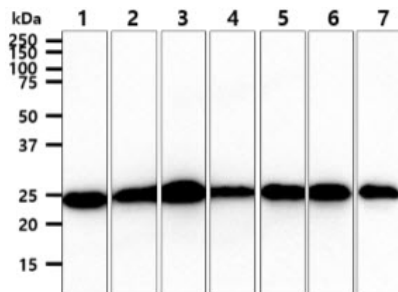
BAK1 encodes an receptor-like kinase (RLK) with a putative extracellular domain, a single transmembrane domain, an intracellular-juxtamembrane domain, and a kinase domain. BAK1 expression is associated with the progression of Prostate cancer (CaP). BAK1 appears to function in distinct receptor-signaling complexes to integrate multiple microbe-associated molecular pattern (MAMP) perception into downstream-signaling events. BAK1 can serve multiple purposes to simultaneously modulate MAMP-receptor complexes, BR signaling, and cell death for the benefit of bacterial infection, life style, and fitness.

General References

- Birgit Kemmerling, et al. (2008) Plant Signal Behav, 3(2): 116-118.
- Libo Shan, et al. (2008) Cell Host Microbe, 4(1): 17-27.
- Xu-Bao Shi, et al. (2007) Proc Natl Acad Sci U S A, 104(50): 19983-19988.

DATA

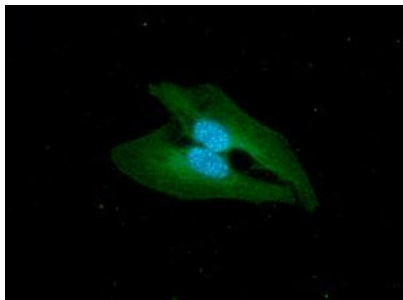
Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human BAK1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

- Lane 1 : 293T cell lysate
- Lane 2 : HeLa cell lysate
- Lane 3 : A431 cell lysate
- Lane 4 : A549 cell lysate
- Lane 5 : Jurkat cell lysate
- Lane 6 : MCF7 cell lysate
- Lane 7 : PC3 cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

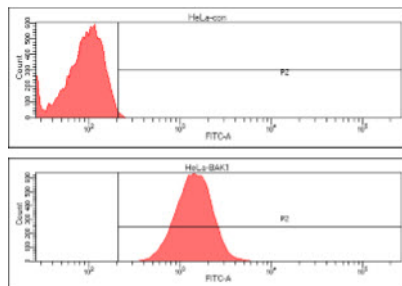


ICC/IF analysis of BAK1 in HeLa cells. The cell was stained with ATGA0183 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)

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Flow cytometry analysis of BAK1 in HeLa cell line, staining at 2-5ug for 1x10⁶ cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).