

**Bak Rabbit Monoclonal Antibody
Product Data Sheet**

Catalog # 1542-1

Clone ID: Y164 **Lot #:** YC092902
Quantity: 100 µl
Type: Rabbit Monoclonal IgG
Species Cross-reactivity: Human Mouse Rat
Applications: WB IHC ICC Flow Cytometry n/d IP
Molecular Wt.: 23 kDa
UniProt ID: Q16611

Background: Bak a pro-apoptotic analog to Bax, is a member of the Bcl-2 family of proteins. During mitochondria-regulated programmed cell death, Bak promotes apoptosis by binding Bcl-2 and inhibiting its anti-apoptotic function (1). Upon apoptotic stimulation, Bak translocates from the cytosol to the mitochondrial membrane (2). Pro-apoptotic cascade activates BID, which oligomerizes Bak into pores that result in the release of cytochrome c (2, 3). In healthy cells, Bak associate with Bcl-xL and Mcl-1 but not with Bcl-2, Bcl-w or A1 and only when freed of both Bak will induce apoptosis.

Specificity: A synthetic peptide corresponding to residues near the N-term of human Bak was used as immunogen. The antibody does not cross-react with other Bcl-2 members

Storage Conditions: Store at -20 °C. Buffer: 50 mM Tris-Glycine (pH 7.4), 0.15 M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.

Recommended Dilutions:

WB: 1:1,000-5,000
IHC: 1:250-500
ICC: 1:250-500
Flow Cytometry: 1:10

Background References:

1. Greider, C.W., and Blackburn, E.H. (1985). Cell 43, 405-413
2. Feng J, Funk WD, Wang SS, et al. Science 1995; 269:1236-41
3. Greider, C.W. (1996). Telomere length regulation. Annu. Rev. Biochem. 65, 337-365

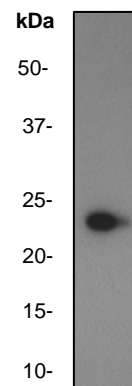


Fig 1. Western blot analysis on Hela cell lysate using anti-Bak RabMAb (cat. # 1542-1). dilution 1:5,000.

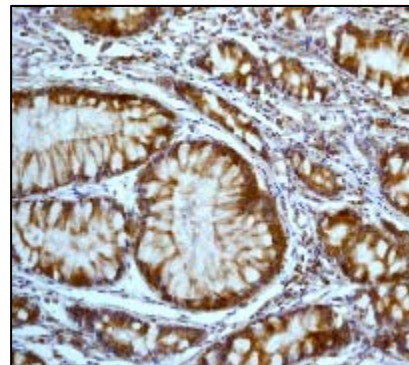


Fig 2. Immunohistochemical analysis of paraffin-embedded human stomach carcinoma using anti-Bak RabMAb (cat. # 1542-1).

Product QC'd by: _____

For research use only. Not for use in diagnostic or therapeutic applications.

This product was manufactured under U.S. Patent No. 5,675,063. For a complete list of protocols and available related products, please visit www.epitomics.com.