

Human/Mouse BID Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: BAF860

Species Reactivity	Human/Mouse	
Specificity	Detects human and mouse BID in Western blots.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	E. coli-derived recombinant mouse BID Met1-Asp195 Accession # AAC71064	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.	

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.1 μg/mL	Recombinant Mouse BID (Catalog # 860-MB)

PREPARATION AND STORAGE			
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.		
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.		
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. ■ 12 months from date of receipt, -20 to -70 °C as supplied. ■ 1 month, 2 to 8 °C under sterile conditions after reconstitution. ■ 6 months, -20 to -70 °C under sterile conditions after reconstitution.		

BACKGROUND

BID is a 195 amino acid member of the Bcl-2 family of proteins that regulates outer mitochondrial membrane permeability (1). BID is a pro-apoptotic member that causes cytochrome c to be released from the mitochondria intermembrane space into the cytosol. In healthy cells BID is cytosolic. In response to Fas ligand or TNF, BID is cleaved by caspase-8 and it then relocates to the mitochondria outer membrane (2, 3). Cleavage of BID by caspase-8 generates a new N-terminal that contains a terminal glycine. It appears that the glycine is myristoylated and myristoylation serves to target BID to the mitochondria (4). BID may then interact with another pro-apoptotic Bcl-2 family member Bak (5). Interaction of BID with Bak causes altered mitochondrial membrane permeability. A 9-13 amino acid stretch called the BH3 region (Bcl-2 homology region) appears to mediate the BID interaction with other Bcl-2 family members. BID is neutralized by binding to the anti-apoptotic member Bcl-xL.

References:

- 1. Gross, A. et al. (1999) Genes and Develop. 13:1899.
- Luo, X., et al. (1998) Cell 94:481.
- Li, H. et al. (1998) Cell 94:491.
- Zha, J. et al. (2000) Science 290:1761.
- Wei, M.C. et al. (2000) Genes Dev. 14:2060.

