

DESCRIPTION

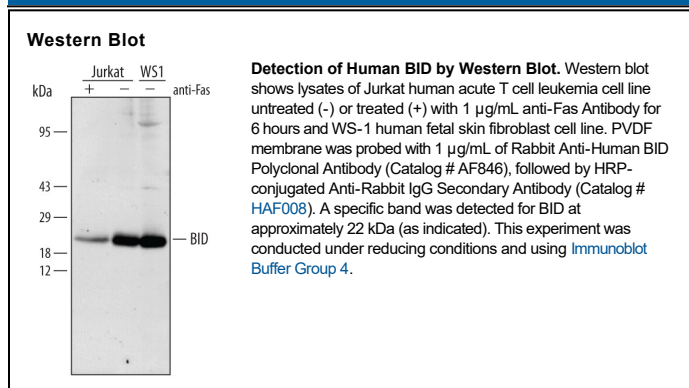
Species Reactivity	Human
Specificity	Detects human BID in Western blots. In Western blots, less than 1% cross-reactivity with recombinant mouse BID is observed.
Source	Polyclonal Rabbit IgG
Purification	Antigen Affinity-purified
Immunogen	KLH-coupled human BID synthetic peptide RRELDALGHLPVLAPQWEC
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

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	1 µg/mL	See Below

DATA



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. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 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-terminus 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.
2. Luo, X., *et al.* (1998) *Cell* **94**:481.
3. Li, H. *et al.* (1998) *Cell* **94**:491.
4. Zha, J. *et al.* (2000) *Science* **290**:1761.
5. Wei, M.C. *et al.* (2000) *Genes Dev.* **14**:2060.