**Background:**
Bcl-2 family of proteins is a key regulator of apoptosis that function to either inhibit or promote cell death. The over expression of members such as Bcl-2 and Bcl-xL inhibit the apoptotic process (1,2). The Bcl-2 family members are also characterized by dimerizing to further modulate apoptosis. Bag-1, for example, has been found to form a heterodimer with Bcl-2 resulting in the enhancement of the anti-apoptotic effect of Bcl-2 (3,4). Other anti-apoptotic Bcl-2 family members include A1, Bcl-xγ, Bcl-xβ, Mcl-1, BAR, BI-1 and Bcl-w (5). The pro-apoptotic family members include Bax, Bcl-xS, Bad, Bak, NBK, BID, Hrk, Bok, Bim, Noxa and Diva. Bax and Bak have been shown to play a critical role in cytochrome c release from mitochondria and thus initiate apoptosis (6). Bad plays a critical role in the Bax-mediated apoptosis pathway by dimerizing with Bcl-xL, causing the displacement of Bax. The displacement of Bax allows apoptosis to proceed (7). Bcl-xS, a shorter version of Bcl-xL (lacking amino acids 126-188), apparently utilizes a different pathway than Bax to induce cell death. Some research suggests that Bcl-xS uses a novel mechanism for regulating caspase or it may use an alternate cell death effector pathway (8,9).

**Origin:**
Bax is provided as an affinity purified rabbit polyclonal antibody, raised against a peptide mapping to the amino terminus of human Bax.

**Product Details:**
Each vial contains 200 µg/ml of affinity purified rabbit IgG, Bax DB005 (A20), in 1 ml PBS containing 0.1% sodium azide and 0.2% gelatin.

**Competition Studies:**
A blocking peptide is also available, DB005P, for use in competition studies. Each vial contains 100 µg of peptide in 0.5 ml PBS with 0.1% sodium azide and 100 BSA.

**Specificity:**
Bax DB005(A20) reacts with Bax of mouse, rat and human origin by western blotting, immunoprecipitation and immunohistochemistry.

**Storage:**
Store this product at 4º C, do not freeze. The product is stable for one year from the date of shipment.

**References:**