

**AP11294PU-N****Polyclonal Antibody to Bax (BH3 Domain) - Purified**

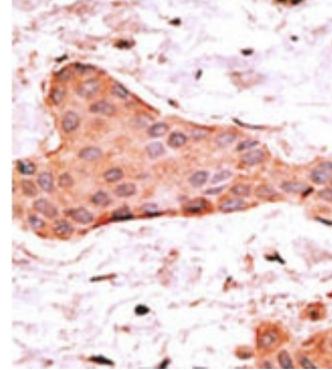
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|--------------------------|---|
| <b>Alternate names:</b>  | Apoptosis regulator BAX, BCL2-associated X protein, BCL2L4, Bcl-2-like protein 4, Bcl2-L-4  |
| <b>Quantity:</b>         | 0.4 ml  |
| <b>Concentration:</b>    | lot specific  |
| <b>Background:</b>       | Bax belongs to the BCL2 protein family. BCL2 family members form hetero- or homodimers and act as anti- or pro-apoptotic regulators that are involved in a wide variety of cellular activities. Bax forms a heterodimer with BCL2, and functions as an apoptotic activator. This protein is reported to interact with, and increase the opening of, the mitochondrial voltage-dependent anion channel (VDAC), which leads to the loss in membrane potential and the release of cytochrome c. The expression of the Bax gene is regulated by the tumor suppressor P53 and has been shown to be involved in P53-mediated apoptosis. |
| <b>Uniprot ID:</b>       | <a href="#">Q07812</a>  |
| <b>NCBI:</b>             | <a href="#">9606</a>  |
| <b>GenelD:</b>           | <a href="#">581</a>   |
| <b>Host / Isotype:</b>   | Rabbit / Ig   |
| <b>Immunogen:</b>        | This antibody was developed against a synthetic peptide selected from the N-terminal region (BH3 domain) of human Bax.  |
| <b>Format:</b>           | <b>State:</b> Liquid purified Ig fraction.<br><b>Purification:</b> Protein G Chromatography, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS.<br><b>Buffer System:</b> PBS containing 0.09% (W/V) Sodium Azide as preservative.   |
| <b>Applications:</b>     | ELISA: 1/1,000.<br>Western blot: 1/100-1/500.<br>Immunohistochemistry: 1/50-1/100.<br>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.  |
| <b>Specificity:</b>      | This antibody is specific to Bax (BH3 Domain).<br><b>Species:</b> Human.<br>Other species not tested.   |
| <b>Add. Information:</b> | Calculated MW: 24220 Da   |
| <b>Storage:</b>          | Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>Avoid repeated freezing and thawing.<br>Shelf life: one year from despatch.  |
| <b>Caution:</b>          | This product is for research use only. Not for use in diagnostic or therapeutic procedures.   |

**General Readings:**

1. Liu, F.T., et al., *Biochem. Biophys. Res. Commun.* 310(3):956-962 (2003).
2. Roucou, X., et al., *J. Biol. Chem.* 278(42):40877-40881 (2003).
3. Cao, X., et al., *Blood* 102(7):2605-2614 (2003).
4. McJilton, M.A., et al., *Oncogene* 22(39):7958-7968 (2003).
5. Bidere, N., et al., *J. Biol. Chem.* 278(33):31401-31411 (2003).

**Pictures:**

Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Western blot analysis of anti-Bax (BH3 Domain) Pab (Cat.#AP11294PU-N) in A375 cell lysate. Bax BH3 Domain (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.

