

Product Name: Bax(6F11)Mouse Monoclonal Antibody
Catalog #: AMM07478



Summary

Production Name	Bax(6F11)Mouse Monoclonal Antibody
Description	Mouse Monoclonal Antibody
Host	Mouse
Application	IF, WB, IHC
Reactivity	Human, Rat, Mouse, Chicken, Silkworm

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	BAX
Alternative Names	BAX
Gene ID	581.0
SwissProt ID	Q07812.Synthetic Peptide of Bax at AA range of 30-110

Application

Dilution Ratio	IF 1:50-200 WB 1:1000-2000, IHC 1:100-200
Molecular Weight	20kD

Background

The protein encoded by BAX (BCL2 associated X, apoptosis regulator) belongs to the BCL2 protein family. BCL2 family

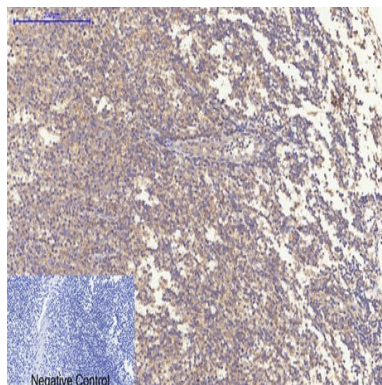
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members form hetero- or homodimers and act as anti- or pro-apoptotic regulators that are involved in a wide variety of cellular activities. This protein forms a heterodimer with BCL2, and functions as an apoptotic activator. This protein is reported 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 this gene is regulated by the tumor suppressor P53 and has been shown to be involved in P53-mediated apoptosis. Multiple alternatively spliced transcript variants, which encode different isoforms, have been reported for BAX. disease: Defects in BAX are found in some cell lines from hematopoietic malignancies as T-cell acute lymphoblastic leukemia, Burkitt lymphoma, and plasmacytoma. domain: Intact BH3 motif is required by BIK, BID, BAK, BAD and BAX for their pro-apoptotic activity and for their interaction with anti-apoptotic members of the Bcl-2 family. function: Accelerates programmed cell death by binding to, and antagonizing the apoptosis repressor BCL2 or its adenovirus homolog E1B 19k protein. Induces the release of cytochrome c, activation of CASP3, and thereby apoptosis. similarity: Belongs to the Bcl-2 family. subcellular location: Colocalizes with 14-3-3 proteins in the cytoplasm. Under stress conditions, redistributes to the mitochondrion membrane through the release from JNK-phosphorylated 14-3-3 proteins. subunit: Homodimer. Forms heterodimers with BCL2, E1B 19K protein, BCL2L1 isoform Bcl-X(L), MCL1 and A1. Interacts with SH3GLB1 and HN. Interacts with SFN and YWHAZ; the interaction occurs in the cytoplasm. Under stress conditions, JNK-mediated phosphorylation of SFN and YWHAZ, releases BAX to mitochondria. Isoform Sigma interacts with BCL2A1 and BCL2L1 isoform Bcl-X(L). tissue specificity: Expressed in a wide variety of tissues. Isoform Psi is found in glial tumors. Isoform Alpha is expressed in spleen, breast, ovary, testis, colon and brain, and at low levels in skin and lung. Isoform Sigma is expressed in spleen, breast, ovary, testis, lung, colon, brain and at low levels in skin. Isoform Alpha and isoform Sigma are expressed in pro-myelocytic leukemia, histiocytic lymphoma, Burkitt's lymphoma, T-cell lymphoma, lymphoblastic leukemia, breast adenocarcinoma, ovary adenocarcinoma, prostate carcinoma, prostate adenocarcinoma, lung carcinoma, epidermoid carcinoma, small cell lung carcinoma and colon adenocarcinoma cell lines.

Research Area

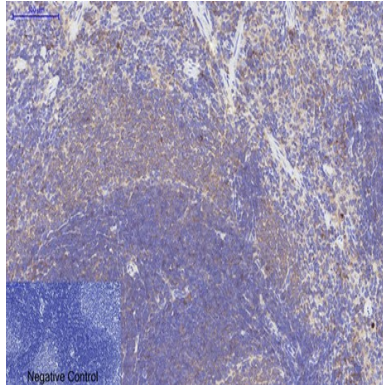
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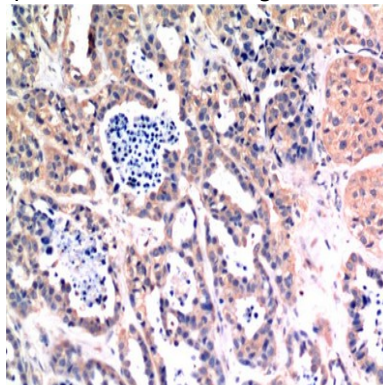
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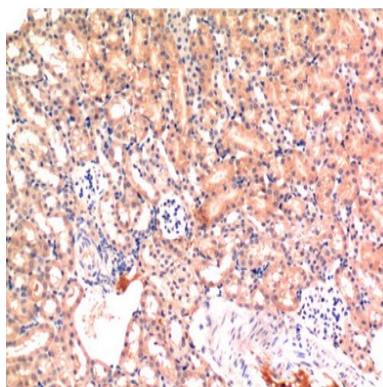
Immunohistochemical analysis of paraffin-embedded Human-Tonsil tissue. 1, Bax Mouse Monoclonal Antibody (6F11) was diluted at 1:200 (4°C, overnight) . 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min) . 3, Secondary antibody was diluted at 1:200 (room temperature, 30min) . Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Rat-spleen tissue. 1, Bax Mouse Monoclonal Antibody (6F11) was diluted at 1:200 (4°C, overnight) . 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min) . 3, Secondary antibody was diluted at 1:200 (room temperature, 30min) . Negative control was used by secondary antibody only.

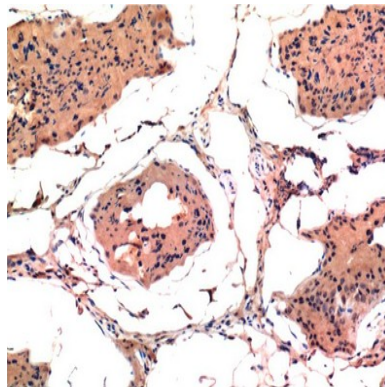


Immunohistochemical analysis of paraffin-embedded Human Breast Carcinoma Tissue using Bax Mouse mAb diluted at 1:200.

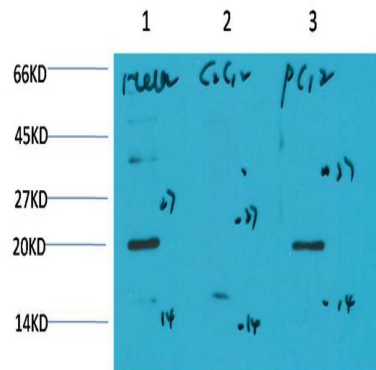


Immunohistochemical analysis of paraffin-embedded Mouse Kidney Tissue using Bax Mouse mAb diluted at 1:200.

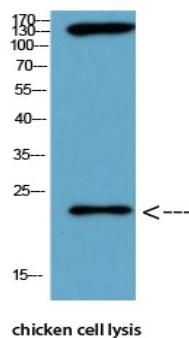
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Immunohistochemical analysis of paraffin-embedded Rat Testis Tissue using Bax Mouse mAb diluted at 1:200.



Western blot analysis of 1) Hela Cell Lysate, 2) C2C12 Cell Lysate, 3) PC12 Cell Lysate using Bax Mouse mAb diluted at 1:1000.



Western Blot analysis of chicken cell lysis using Antibody diluted at 1:1000

Note

For research use only.