

BCL-G IS A NOVEL PROTEIN OF BAX

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Background & Objective: BCL-G is a novel protein of Bax (BCL-G associated protein X) inducing caspase-mediated apoptosis. These proteins are involved in regulating apoptosis both in normal, and in neoplastic cells although their cellular and tissue distribution is currently unknown. Accordingly, the objective of the current study was to ascertain and define the pattern of distribution and expression of BCL-G in normal and malignant gastrointestinal human tissues.

Methods: Using a rabbit monoclonal antibody against BCL-G, the distribution and expression of BCL-G was assessed by immunohistochemistry in formalin-fixed, paraffin-embedded, benign and malignant human tissues

Results: We found a variable pattern of positive expression of BCL-G within all the tissues we studied. BCL-G expression was typically localized in the cytoplasmic paranuclear granules in the epithelial cells in most organs we examined. The intensity of BCL-G staining related to the maturation state in benign tissue.

Conclusion: We have demonstrated that BCL-G exhibits a specific distribution pattern that appears to correlate with cellular differentiation. However, while these distribution patterns are complex they do give a tantalizing insight into function, and consequently need further investigation to determine their physiological/pathological significance.

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