

20-1023: Polyclonal antibody to Bax

Clonality :	Polyclonal
Application :	IP,IHC,WB
Reactivity :	Rat,Mouse
Gene :	BAX
Gene ID :	581
Uniprot ID :	Q07812
Format :	Sera
Alternative Name :	BAX,BCL2L4
Isotype :	Rabbit IgG
Immunogen Information :	A synthetic peptide of Bax protein (amino acids 43-60 PELTLEQPPQDASTKKLS) was used as the immunogen for this antibody

Description

This antibody reacts with Bax isoforms containing the peptide immunogen sequence (PELTLEQPPQDASTKKLS). Mouse and rat Bax alpha are 192 amino acid proteins. The Bcl-2 family of apoptosis-related genes plays central roles in regulating apoptotic pathways. Regulation of cell death through apoptosis is critical for the maintenance of homeostasis, defense against infectious agents, and normal development. Bcl-2 family proteins regulate apoptosis primarily through the regulation of mitochondrial outer membrane permeability. In mammals, Bcl-2 family proteins can be divided into 3 main subfamilies on the basis of their function and the content of their Bcl-2 homology (BH) domains, for example: 1) Prosurvival: Bcl-2, Bcl-XL, Bcl-W, A1, and Mcl-1 2) Proapoptotic (multidomain): Bax, Bak, and Bok. 3) BH3-only (proapoptotic): Bad, Bcl-XS, Bid, Bik, Bim, Blk, Bmf, Bnip, Noxa, and Puma. Many Bcl-2 family proteins are differentially expressed in various malignancies and some are useful prognostic biomarkers. Prosurvival proteins are often elevated in diverse cancers and have the potential to confer resistance to both endogenous cell death stimuli and cancer treatments. Alterations in the ratio or levels of Bcl-2 family proteins have been also associated with nonmalignant diseases including neurodegenerative diseases, autoimmune diseases, AIDs, Downs syndrome, cardiovascular diseases, diabetes, glomerulonephritis, and muscular dystrophy.

Product Info

Amount :	50 µl
Content :	50 µl sera
Storage condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

WB: 1:1000-1:2000, IHC (paraffin): 1:1000-1:5000, IHC (frozen): Users should optimize, IP: 1:50-1:200

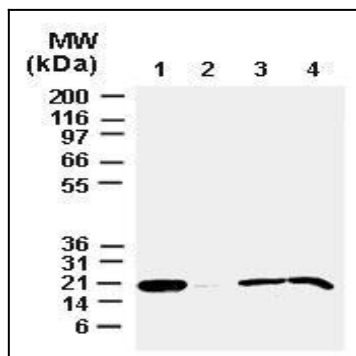


Fig:1 Western blot analysis of Bax in mouse using 20-1023 at 1:2000. 1. In vitro translated mouse Bax. 2. Normal cortex. 3. Ischemic hippocampus. 4. Ischemic hippocampus. Ischemic samples were prepared 6 hr post middle cerebral artery occlusion. The results show the Bax expression increased following ischemia.

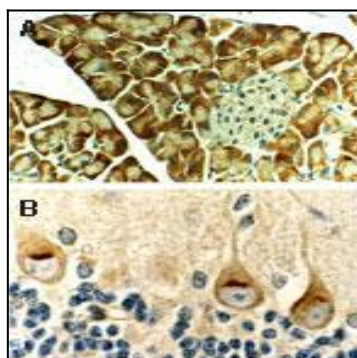


Fig:2 Formalin-fixed, paraffin-embedded mouse tissue sections stained for Bax using 20-1023 at 1:2000. A. Pancreas. B. Brain showing expression of Bax in the Purkinje cells.