



Rat Anti-BAX monoclonal antibody, clone 4D20 (CABT-RM123)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	Detects human and mouse Bax, It targets an epitope within the alpha 1 and 2 loop in the N-terminal region.
Target	BAX
Immunogen	KLH-conjugated linear peptide corresponding to 24 amino acids from the N-terminal region.
Isotype	IgG2a, κ
Source/Host	Rat
Species Reactivity	Human, Mouse
Clone	4D20
Purification	Protein G purified
Conjugate	unconjugated
Applications	IP, WB, FuncS
Molecular Weight	~23 kDa observed; 21.18 kDa calculated. Uncharacterized bands may be observed in some lysate(s).
Format	Liquid
Size	100 µg
Buffer	PBS
Preservative	None

Storage	Stable for 1 year at -20°C from date of receipt. Handling Recommendations: Upon receipt and prior to removing the cap, centrifuge the vial and gently mix the solution. Aliquot into microcentrifuge tubes and store at -20°C. Avoid repeated freeze/thaw cycles, which may damage IgG and affect product performance.
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BACKGROUND

Introduction	Apoptosis regulator Bax is encoded by the BAX gene in human. Bax is a pro-apoptotic member of the Bcl-2 family of proteins. Bax displays extensive homology with Bcl-2 and is variably expressed in different cells, usually at very low concentrations in normal cells. Bax is largely cytosolic under normal conditions, but upon induction of apoptosis it undergoes a conformational change and translocates from cytosol to mitochondrial membrane. Bax forms homodimers as well as heterodimers with Bcl-2 through common binding motif and the ratio of Bax to Bcl-2 determines the survival or death of cells during apoptosis. Bax 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. Multiple alternatively spliced transcript variants, which encode different isoforms, have been reported for this gene.
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Keywords	BAX; BCL2-associated X protein; BCL2L4; apoptosis regulator BAX; bcl2-L-4; Baxdelta2G9; Baxdelta2omega; Baxdelta2G9omega; bcl-2-like protein 4; BCL2-associated X protein omega
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GENE INFORMATION

Entrez Gene ID	581
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UniProt ID	Q07812
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