



Anti-BCL2 monoclonal antibody, clone 211/E6 (DCABH-9805)

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

PRODUCT INFORMATION

Product Overview	Mouse monoclonal to Bcl2 alpha - BSA and Azide free
Antigen Description	BCL2 is an integral outer mitochondrial membrane protein that blocks the apoptotic death of some cells such as lymphocytes. Constitutive expression of BCL2, such as in the case of translocation of BCL2 to Ig heavy chain locus, is thought to be the cause of follicular lymphoma. Two transcript variants (alpha and beta) produced by alternate splicing, differ in their C-terminal ends. BCL2 suppresses apoptosis in a variety of cell systems including factor-dependent lymphohematopoietic and neural cells. It regulates cell death by controlling the mitochondrial membrane permeability. It appears to function in a feedback loop system with caspases. BCL2 inhibits caspase activity either by preventing the release of cytochrome c from the mitochondria and/or by binding to the apoptosis-activating factor (APAF1). It can form homodimers, and heterodimers with BAX, BAD, BAK and BclX(L). Heterodimerization with BAX requires intact BH1 and BH2 domains, and is necessary for anti-apoptotic activity. Also interacts with APAF1, RAF1, TP53BP2, BBC3, BCL2L1 and BNIP1.
Immunogen	Synthetic peptide: Cys-GAAPAPGIFSSQPG, corresponding to amino acids 41-54 of Human Bcl2 alpha
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	211/E6
Conjugate	Unconjugated
Applications	WB, IP, IHC-P, Flow Cyt, ICC/IF

Positive Control	Raji Cells. Tonsil or follicular lymphoma tissue.
Format	Liquid
Size	100 µl
Buffer	Preservative: None; Constituents: 10mM PBS, pH 7.4
Preservative	None
Storage	store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Ship	Shipped at 4°C.

GENE INFORMATION

Gene Name	BCL2 B-cell CLL/lymphoma 2 [Homo sapiens]
Official Symbol	BCL2
Synonyms	BCL2; B-cell CLL/lymphoma 2; apoptosis regulator Bcl-2; Bcl 2; PPP1R50; protein phosphatase 1; regulatory subunit 50; protein phosphatase 1, regulatory subunit 50; Bcl-2;
Entrez Gene ID	596
Protein Refseq	NP_000624
UniProt ID	A0A024R2B3
Chromosome Location	18q21.3
Pathway	ATF-2 transcription factor network, organism-specific biosystem; Activation of BAD and translocation to mitochondria, organism-specific biosystem; Activation of BH3-only proteins, organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), conserved biosystem; Apoptosis, organism-specific biosystem; Apoptosis, organism-specific biosystem;
Function	BH3 domain binding; channel activity; identical protein binding; protease binding; protein binding; protein heterodimerization activity; protein homodimerization activity; protein phosphatase 2A binding; sequence-specific DNA binding; transcription factor