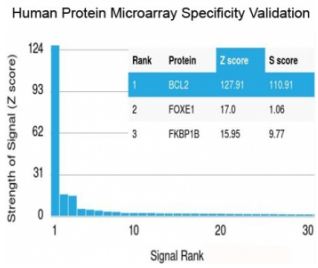
Recombinant Bcl-2 Antibody [clone rBCL2/796] (V3543)

Catalog No.	Formulation	Size
V3543-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3543-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3543SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3543IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

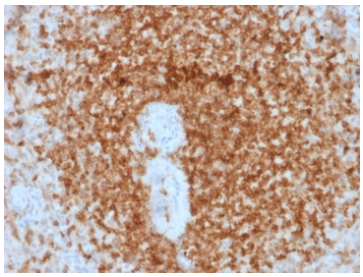
Recombinant | MOUSE MONOCLONAL

Bulk quote request

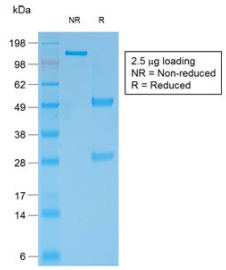
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	rBCL2/796
Purity	Protein G affinity chromatography
UniProt	P10415
Localization	Cytoplasmic, membrane
Applications	Flow Cytometry : 1-2ug/10^6 cells Immunofluorescence : 1-2ug/ml Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This recombinant Bcl-2 antibody is available for research use only.



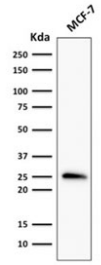
Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using recombinant Bcl-2 antibody (clone rBCL2/796). These results demonstrate the foremost specificity of the rBCL2/796 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



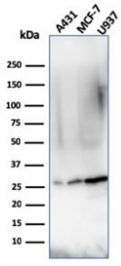
IHC testing of FFPE human spleen tissue with recombinant Bcl-2 antibody (rBCL2/796). HIER: boil tissue sections in 10mM Tris with 1mM EDTA, pH 7.5-8.5, for 10-20 min followed by cooling at RT for 20 min.



SDS-PAGE analysis of purified, BSA-free recombinant Bcl-2 antibody (clone rBCL2/796) as confirmation of integrity and purity.



Western blot testing of human MCF7 cell lysate with recombinant Bcl-2 antibody (clone rBCL2/796). Expected molecular weight ~26 kDa.



Western blot testing of human samples with recombinant Bcl-2 antibody (clone rBCL2/796). Expected molecular weight ~26 kDa.

Description

Recombinant Bcl-2 antibody is a critical tool for studying the B cell lymphoma 2 protein, a regulator of apoptosis and mitochondrial integrity. Bcl-2 is a member of a large protein family that governs the balance between cell survival and programmed cell death. By residing in the outer mitochondrial membrane, Bcl-2 prevents the release of cytochrome c and other pro apoptotic factors, thereby blocking the intrinsic pathway of apoptosis. Its protective role makes it central in both normal physiology and disease.

The importance of Bcl-2 was first recognized in hematologic malignancies, where overexpression was linked to prolonged cell survival and tumor progression. Since then, its role has been documented in many cancers, autoimmune disorders, and neurodegenerative diseases. Bcl-2 acts by binding to pro apoptotic family members such as Bax and Bak, sequestering them to prevent mitochondrial outer membrane permeabilization. This anti apoptotic activity allows cells to persist even under stress conditions.

The Recombinant Bcl-2 antibody clone rBCL2/796 delivers precise and reproducible recognition of Bcl-2 protein. Recombinant technology ensures consistent quality across batches, minimizing experimental variability. Clone rBCL2/796 has been employed in cancer biology to study mechanisms of resistance to apoptosis and in neurobiology to investigate survival pathways in neurons. Its reliability makes it a trusted choice for researchers exploring how Bcl-2 controls cell fate.

In pathology, Bcl-2 expression is often used as a diagnostic and prognostic marker. High levels are characteristic of follicular lymphoma and other B cell malignancies, while altered regulation is seen in solid tumors and autoimmune diseases. Research with clone rBCL2/796 has contributed to understanding how modulation of Bcl-2 impacts disease progression and response to therapy. It also provides insight into the development of drugs that inhibit Bcl-2 function, such as BH3 mimetics.

NSJ Bioreagents offers this Recombinant Bcl-2 antibody to support work in oncology, immunology, and neurobiology. The protein is also referred to as B cell lymphoma 2 antibody, apoptosis regulator Bcl-2 antibody, mitochondrial outer membrane protein antibody, and BCL2 proto oncogene antibody, reflecting its diverse functions across biological systems.

Application Notes

Optimal dilution of the recombinant Bcl-2 antibody should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Recombinant full-length human protein was used as the immunogen for the recombinant Bcl-2 antibody.

Storage

Store the recombinant Bcl-2 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).