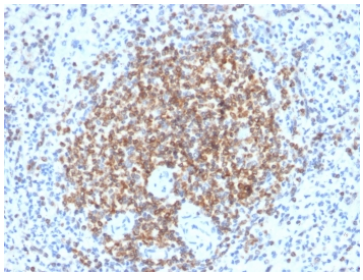
Recombinant Bcl-2 Antibody / Rabbit Monoclonal [clone BCL2/2210R] (V3547)

Catalog No.	Formulation	Size
V3547-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3547-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3547SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3547IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

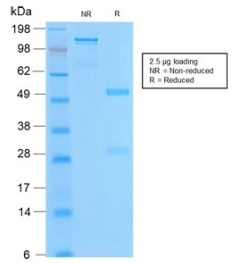
Recombinant RABBIT MONOCLONAL

Bulk quote request

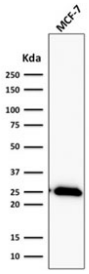
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	BCL2/2210R
Purity	Protein A affinity chromatography
UniProt	P10415
Localization	Cytoplasmic, membrane
Applications	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This recombinant Bcl-2 antibody is available for research use only.



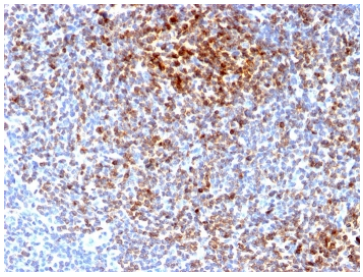
IHC testing of FFPE human spleen tissue with recombinant Bcl-2 antibody (clone BCL2/2210R). HIER: boil tissue sections in 1mM EDTA buffer, pH 8, for 10-20 min followed by cooling at RT for 20 min.



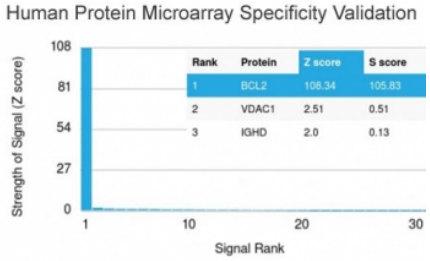
SDS-PAGE analysis of purified, BSA-free Bcl-2 antibody (clone BCL2/2210R) as confirmation of integrity and purity.



Western blot testing of human MCF7 cell lysate with recombinant Bcl2 antibody (clone BCL2/2210R). Expected molecular weight ~26 kDa.



IHC testing of FFPE human follicular lymphoma with recombinant Bcl-2 antibody (clone BCL2/2210R). HIER: boil tissue sections in 1mM EDTA buffer, pH 8, for 10-20 min followed by cooling at RT for 20 min.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Bcl-2 antibody (clone BCL2/2210R). These results demonstrate the foremost specificity of the BCL2/2210R 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.

Description

Recombinant Bcl-2 antibody is a specialized reagent for detecting the anti apoptotic protein Bcl-2, which regulates mitochondrial outer membrane stability. By preventing the release of pro apoptotic factors, Bcl-2 safeguards cells from programmed cell death. Its activity is central to development, immune regulation, and tumor progression. Because of its role in blocking apoptosis, Bcl-2 is a target of intensive investigation in cancer biology and therapeutic development.

Bcl-2 belongs to a family of proteins that balance pro survival and pro death signals. It binds to BH3 domain containing partners such as Bax to prevent mitochondrial pore formation. This activity preserves mitochondrial potential and prevents activation of the caspase cascade. Dysregulation of Bcl-2 expression allows abnormal cells to survive, which is particularly evident in lymphomas and other malignancies where Bcl-2 overexpression is common.

The Recombinant Bcl-2 antibody clone BCL2/2210R provides accurate and reproducible recognition of this protein. Clone BCL2/2210R benefits from recombinant production, which eliminates variability and ensures stable quality across experiments. It has been used in oncology to study how Bcl-2 expression contributes to therapy resistance, in

immunology to assess lymphocyte survival, and in neuroscience to explore protective mechanisms in neurons under stress. Its reproducibility makes it well suited for detailed mechanistic studies.

As a clinical biomarker, Bcl-2 detection provides diagnostic and prognostic information in a range of cancers. Clone BCL2/2210R has contributed to studies showing how altered Bcl-2 levels correlate with tumor aggressiveness and patient outcomes. In addition, this antibody aids research into novel therapies such as BH3 mimetics, which are designed to neutralize Bcl-2 and restore apoptotic signaling in malignant cells.

NSJ Bioreagents provides this Recombinant Bcl-2 antibody to advance research in apoptosis regulation and cancer treatment. Researchers may also encounter this protein under alternate terms such as apoptosis regulator Bcl-2 antibody, BCL2 proto oncogene antibody, B cell lymphoma 2 protein antibody, and mitochondrial outer membrane survival protein antibody. These alternate names highlight the broad relevance of Bcl-2 across biological disciplines.

Application Notes

The optimal dilution of the recombinant Bcl-2 antibody for each application 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 this 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).