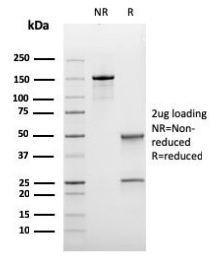
Recombinant Bcl6 Antibody [clone rBCL6/1475] (V8063)

Catalog No.	Formulation	Size
V8063-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8063-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8063SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

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	rBCL6/1475
Purity	Protein G affinity chromatography
UniProt	P41182
Localization	Nuclear
Applications	1-2ug/ml
Limitations	This recombinant Bcl6 antibody is available for research use only.



SDS-PAGE analysis of purified, BSA-free recombinant Bcl6 antibody (clone rBCL6/1475) as confirmation of integrity and purity.

Description

Bcl6 antibody recognizes B-cell lymphoma 6 protein, a nuclear transcriptional repressor encoded by the human BCL6 gene. Recombinant Bcl6 antibody detects a zinc finger transcription factor that plays a central role in germinal center formation, B-cell differentiation, and regulation of immune responses. Bcl6 is predominantly localized to the nucleus, where it represses transcription of target genes involved in cell cycle control, DNA damage response, and lymphocyte activation.

Recombinant Bcl6 antibody, also referred to as B-cell lymphoma 6 protein antibody and BCL6 transcription repressor antibody in the literature, targets a member of the BTB-POZ domain zinc finger protein family. Bcl6 contains an N-terminal BTB-POZ domain that mediates transcriptional repression through recruitment of corepressor complexes, as well as multiple C-terminal C2H2-type zinc finger motifs responsible for sequence-specific DNA binding. These structural domains enable Bcl6 to regulate gene expression programs critical for germinal center B-cell proliferation and survival.

The BCL6 gene is located on chromosome 3q27 and is frequently involved in chromosomal translocations in diffuse large B-cell lymphoma and other non-Hodgkin lymphomas. Aberrant expression or mutation of Bcl6 disrupts normal germinal center dynamics and contributes to lymphomagenesis by repressing genes such as TP53 and CDKN1A that are involved in apoptosis and cell cycle arrest.

Bcl6 expression is highly enriched in germinal center B cells and certain T follicular helper cells, reflecting its role in adaptive immunity. In addition to immune regulation, Bcl6 has been implicated in inflammatory signaling pathways and may influence macrophage and dendritic cell function through transcriptional repression of pro-inflammatory genes.

Because of its restricted nuclear expression pattern and strong association with germinal center-derived lymphomas, Bcl6 antibody is widely used in research settings to identify germinal center B cells and to characterize B-cell malignancies. Detection of nuclear Bcl6 supports studies of lymphoid differentiation, tumor classification, and transcriptional regulation mechanisms.

Clone rBCL6/1475 is a recombinant monoclonal antibody designed to target Bcl6 protein in research applications. An antibody to Bcl6 is suitable for detecting nuclear Bcl6 expression and for investigating germinal center biology, transcriptional repression, and lymphoma-related signaling pathways.

Application Notes

Optimal dilution of the recombinant Bcl6 antibody should be determined by the researcher.

Immunogen

A recombinant human partial protein (amino acids 256-389) was used as the immunogen for this recombinant Bcl6 antibody.

Storage

Store the recombinant Bcl6 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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