



### Cat nr **AE00103**

Recombinant Mouse Antibody, clone rBCL2/782 to:

### **BCL-2/BCL2**, Apoptosis regulator BCL-2

B-cell CLL/lymphoma-2; Bcl-2; PPP1R50

Cellular localization	Outer mitochondrial membranes, endoplasmic reticulum, nuclear membranes.
Official Symbol (Gene)	BCL2
GenelD	596
SwissProt	P10415

Confirmed Applications	IHC, WB
Positive controls	Jurkat, K562, HL-60, HeLa, tonsil, follicular lymphoma.
Aeonian Rating©	90

Purification	<input type="checkbox"/>	By Protein G from bioreactor concentrate
Formulation	<input type="checkbox"/>	200ug IgG/ml in PBS, 0.05% BSA, 0.05% azide (20ug or 100ug)
	<input type="checkbox"/>	1mg IgG/ml in PBS (100ug or contact us for quotation)
Amount	<input type="checkbox"/>	20ug
	<input type="checkbox"/>	100ug
Isotype		Mouse IgG1, kappa
Confirmed species reactivity		Human
Immunogen		Recombinant full-length human BCL2 protein
Epitope		Unknown

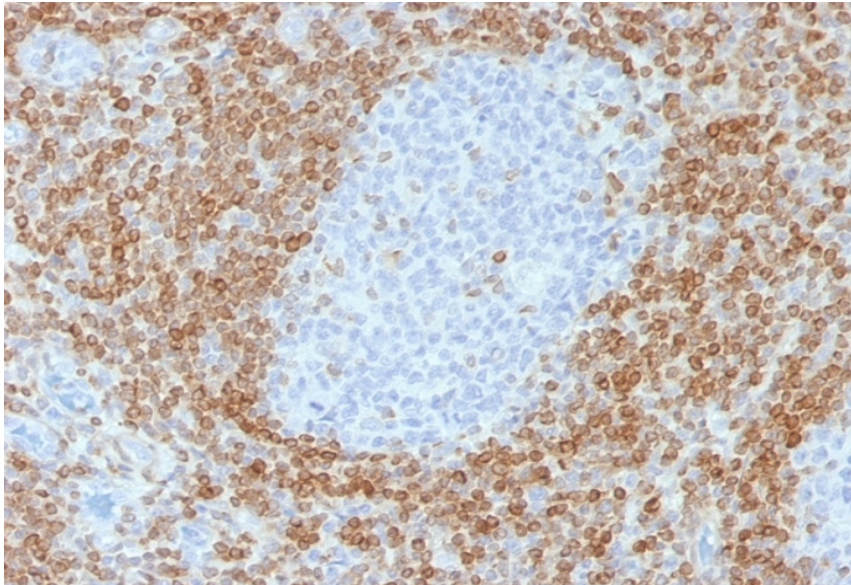
Storage instructions	Avoid repeated freeze/thaw cycles. For long term storage, keep small aliquots at -20C or -80C and keep one aliquot at 4C for daily experimentations. Azide will preserve antibody at 4C for 6-12 months, when kept away from direct sun light.
Expiration	Integrity warranted for 24 months after purchase when handled and stored according to instructions, see below.
Warranty	This product is only warranted for the specifications as described in this product sheet and only when the product is handled and stored according to instructions. User should validate this antibody in the application and tissue/cell type as required, after confirmation of integrity upon receipt is obtained by reproducing the performance as described below. Should such confirmation not be attempted, any warranty is void. In case of non-conformance, user needs to contact us immediately for replacement or refund.
Liability	This product is for in vitro research use only. Any other applications, such as diagnostics or therapeutics, or in vivo experiments, and the validation of this product therein, are solely at the responsibility of the buyer/user.

Product performance                      see next pages

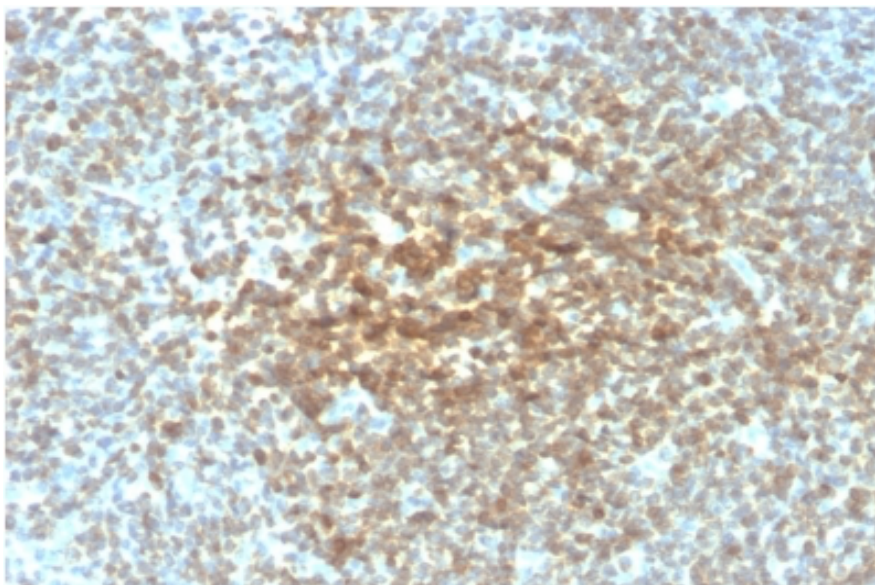
**Product data:**

**ImmunoHistoChemistry (IHC):**

This product was successfully used to stain T-cells in human tonsil sections and malignant cells in human follicular lymphoma sections. Recommended concentration: 0.3-1ug/ml



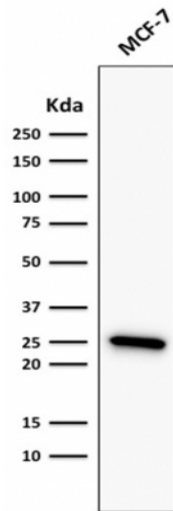
Formaldehyde-fixed, paraffin-embedded human tonsil stained with BCL2 Mouse Recombinant Antibody AE00103 at 0.5-1ug/ml for 30 minutes at RT. Epitope retrieval: Boiling at pH9 for 10-20 min followed by 20 min cooling. DAB staining by HRP polymer.



Formaldehyde-fixed, paraffin-embedded human follicular lymphoma stained with BCL2 Mouse Recombinant Antibody AE00103 at 0.5-1ug/ml for 30 minutes at RT. Epitope retrieval: Boiling at pH9 for 10-20 min followed by 20 min cooling. DAB staining by HRP polymer.

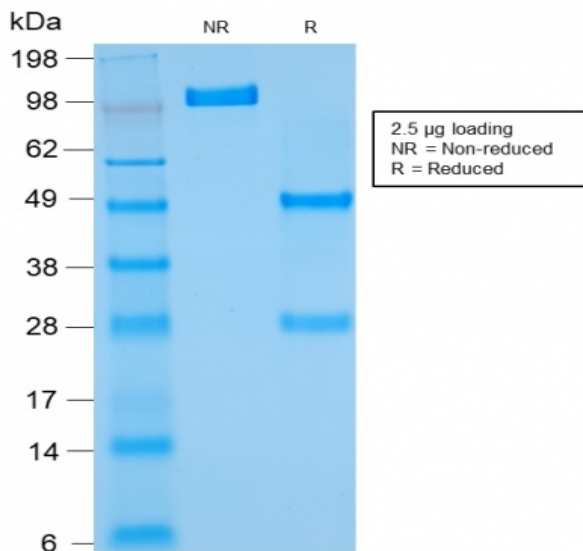
**Western Blot (WB):**

This product was successfully used to stain an approx. 26kDa band in lysates of cell line MCF7.  
Recommended concentration: 0.3-1ug/ml



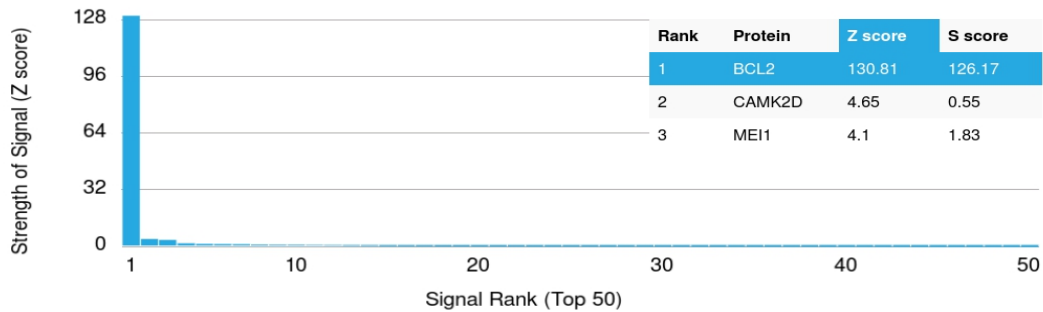
Western Blot of a MCF7 lysate (30ug) stained with BCL2 Mouse Recombinant Antibody AE00103 at 0.5-1ug/ml (1h at ambient temp). ECL staining by HRP.

**SDS-PAGE Analysis of Purified BCL2 Mouse Recombinant Antibody AE00103. Confirmation of Purity and Integrity of Antibody.**



Integrity of the purified antibody AE00103 under non-reduced and reduced conditions, showing intact IgG at around 100kDa (NR) and intact heavy and light chains at 50kDa and 28kDa resp. (R).

Specificity and selectivity of AE00103 to BCL2 were tested against >19,000 full-length human proteins on a human protein array. A protein BLAST search against *H. sapiens* revealed the following closely related other proteins: BCL2L1 (isf BCLX), BCL2L2 and BAX. All these were part of the array used and showed no cross-reactivity signals.



Cross-reactivity assessment of BCL2 Mouse Recombinant Antibody AE00103 (1ug/ml) on CDI's Protein Array containing more than 19,000 full-length human proteins.

The Z-score represents the strength of a signal that an antibody (through a fluorophore-tagged secondary reagent) produces when binding to a particular protein on the array. Z-scores are in units of standard deviations (SD's) above the mean value of all signals generated on that array. When Z-scores are arranged in descending order, the difference between two successive values will be the S-score for the first. Thus, the S-score represents the relative specificity of the antibody to its intended target. An antibody is considered specific to its intended target, when it has an S-score of at least 2.5. For example, if an antibody binds to intended protein X with a Z-score of 43 and to the cross-reacting protein Y with a next Z-score of 14, then the S-score for the antibody to intended target X equals 29 (43-14).