

# ABfinity™ BCL-2 Recombinant Rabbit Oligoclonal Antibody

Store at 2°C to 8°C (short-term), or –20°C (long-term)

Catalog Number 710515

Pub. No. MAN0008342 Rev. 1.00

<b>Clonality:</b> Oligoclonal	<b>Quantity:</b> 100 µg	<b>Volume:</b> 200 µL	<b>Concentration:</b> 0.5 mg/mL
<b>Host/Class:</b> Rabbit IgG	<b>Reactivity:</b> Human	<b>Predicted Reactivity:</b> Human BCL-2	

## Product description

B-cell Lymphoma 2 belongs to the BCL-2 family of regulatory proteins. Primarily, BCL-2 regulates apoptosis through the inhibition of cytochrome activity in the mitochondria of cells via a feedback loop system involving caspases. BCL-2 requires the BH4 motif for anti-apoptotic activity. During apoptosis, this motif is proteolytically cleaved by caspases causing the release of Cytochrome C into the cytosol which then further promotes caspase activity and by extension becomes pro-apoptotic. BCL-2 also inhibits apoptosis by binding to the Apoptosis-Activating Factor (APAF-1).

## Product specifications

<b>Immunogen:</b>	Peptide corresponding to amino acids 51–64 of human BCL-2
<b>Apparent MW:</b>	~26 kDa
<b>Gene ID:</b>	596
<b>Protein Accession No.:</b>	P10415
<b>Sequence Identity:</b>	Human
<b>Sequence Homology:</b>	Monkey, Horse, Pig, Cat, Dog, Bovine, Rat, Mouse
<b>Clone:</b>	8HCLC
<b>Isotype:</b>	IgG
<b>Lot:</b>	See product label

## Product applications

Application	Species	Test Material	Concentration
Immunocytochemistry	Human	HeLa cells	1–2 µg/mL
ELISA	Human	Peptide	1.5 × 10 <sup>–4</sup> to 3 µg/mL

## Storage and handling

Store the antibody at 2°C to 8°C for up to 1 month, or –20°C for long storage. Avoid repeated freezing and thawing.

## Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on product label.

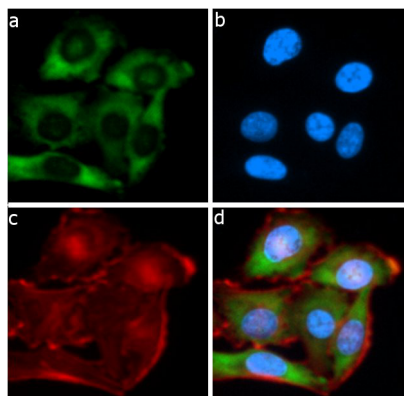


Figure 1 Immunocytochemistry analysis of ABfinity™ BCL-2 Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710515).

Immunocytochemistry analysis of HeLa cells stained with ABfinity™ BCL-2 Recombinant Rabbit Oligoclonal Antibody using a: Alexa Fluor® 488 goat anti-rabbit as a secondary antibody (green). b: DAPI stained HeLa nuclei (blue). c: Actin stained with Alexa Fluor® 594 phalloidin (red). d: Composite image of cells showing cytoplasmic and nuclear localization of BCL-2.

## Storage buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.



**CAUTION!** Sodium azide is extremely toxic and may react with lead and copper plumbing to form highly explosive metal azides. Properly dispose of solutions containing sodium azide. Read the Safety Data Sheet (SDS) and follow the handling instructions. Wear appropriate protective eyewear, clothing and gloves. SDSs are available at [www.lifetechnologies.com/support](http://www.lifetechnologies.com/support).

## Product documentation

To obtain a Certificate of Analysis or Safety Data Sheet (SDS), visit <http://www.lifetechnologies.com/support>.

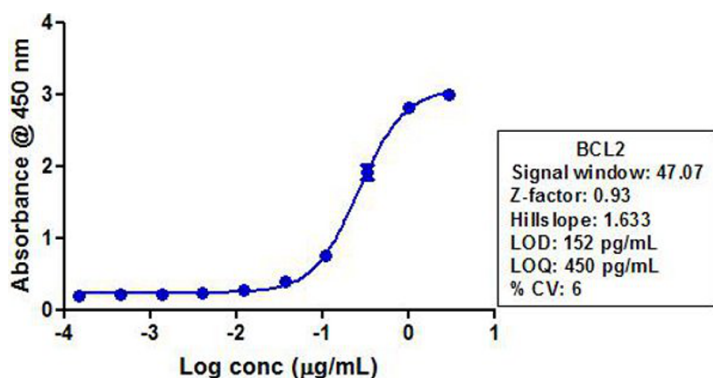


Figure 2 Indirect ELISA of ABfinity™ BCL-2 Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710515).

Indirect ELISA was performed to detect various dilutions of ABfinity™ BCL-2 Recombinant Rabbit Oligoclonal Antibody, followed by Goat Anti-Rabbit HRP (Cat. no. G21234), to detect BCL-2 peptide coated onto the plate. A non-linear regression analysis was performed (4 PL), LOD, and LOQ for the antibody was determined.

## Limited product warranty

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## Explanation of symbols

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

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