

ABfinity™ p50 [pS337] Recombinant Monoclonal Antibody

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

Catalog Number: 701430

Pub. No. MAN0010202 **Rev.** 1.00

Clonality: Monoclonal	Quantity: 100 µg	Volume: 200 µL	Concentration: 0.5 mg/mL
Host/Class: Rabbit IgG	Reactivity: Human p50 [pS337]	Reactive Species: Human	

Product description

The p50 protein is a member of the NF-κB/Rel transcription factor family that is a subunit of the NF-κB protein complex. p50 is processed from a 105 kDa precursor protein by the 26S proteasome, and can exist as either a heterodimer or a homodimer. Heterodimers formed with Rel proteins activate transcription, but because p50 lacks a C terminal transactivation domain, the homodimer acts as a repressor unless it associates with a co-activator such as BCL3. The NF-κB protein complex expressed in most cell types, and is primarily found in the cytoplasm in an inactive state in association with I-kappa-B. Phosphorylation of I-kappa-B releases the complex, allowing translocation to the nucleus and modification of gene expression. Phosphorylation of the p50 subunit at the Ser-337 residue has been shown to significantly increase DNA binding efficiency of the NF-κB protein complex.

Product specifications

Predicted Reactivity:	Monkey, Sheep, Bovine, Mouse
Alternate Names:	EBP-1, NFKB-p50, NF-κB1, KBF1, p105, NFKB-p105, NF-kappa-B
Gene ID:	4790, 18033
Protein Accession No.:	P19838
Sequence Homology:	Human, Mouse
Clone/PAD:	2H7L8
Isotype:	IgG
Lot:	See product label

Product applications

The antibody has been used in western blotting and ELISA applications. Other applications may work but have not been tested.

Because conditions may vary, it is recommended that each investigator determine the optimal amount of antibody to be used for each application.

Storage and handling

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

Stability

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

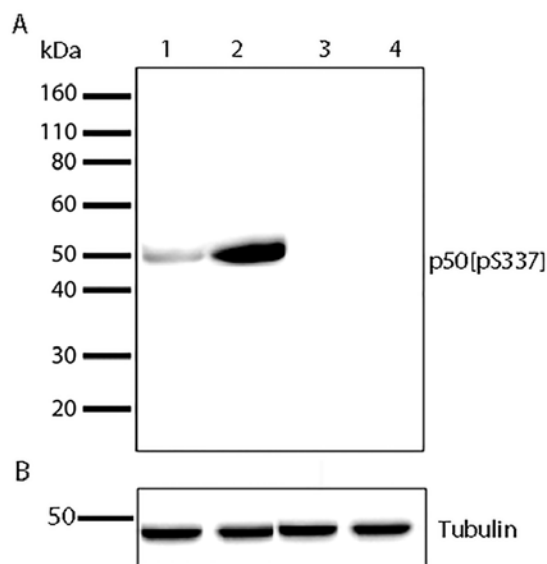


Figure 1 Western blot analysis of ABfinity™ p50 [pS337] Recombinant Rabbit Monoclonal Antibody (Cat. no. 701430).

Western blot analysis was performed on 20 µg each of whole cell lysates from untreated Jurkat cells (Lane1), or TNF-alpha treated (20 ng/mL for 30 min) Jurkat cell (Lane 2). Competition with the phosphopeptide (10 ng/mL) was also performed with the lysates (Lanes 3 and 4). Endogenous p50 [pS337] was detected at ~50 kDa using ABfinity™ p50 [pS337] Recombinant Rabbit Monoclonal Antibody at a concentration of 1 µg/mL. A rabbit anti-tubulin antibody was blotted as a loading control. The blots were developed using chemiluminescence (ECL) method with a goat anti-rabbit HRP secondary antibody (Cat no. G21234).

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.

Product documentation

To obtain a Certificate of Analysis or Safety Data Sheets (SDSs), visit www.lifetechnologies.com/support.

Related products

Product Name	Quantity	Cat. No.
WesternBreeze® Chromogenic Kit Anti-Rabbit	1 kit	WB7105
WesternBreeze® Chemiluminescent Kit Anti-Rabbit	1 mg	WB7106
Goat anti-mouse (H+L), HRP conj.	1 mg	G21040
Goat anti-rabbit (H+L), HRP conj.	1 mg	G21234
Goat anti-mouse (H+L), AP conj.	1 mg	G21060
Goat anti-rabbit (H+L), AP conj.	1 mg	G21079
Streptavidin Agarose	5 mL	SA10004

Important licensing information

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Limited product warranty

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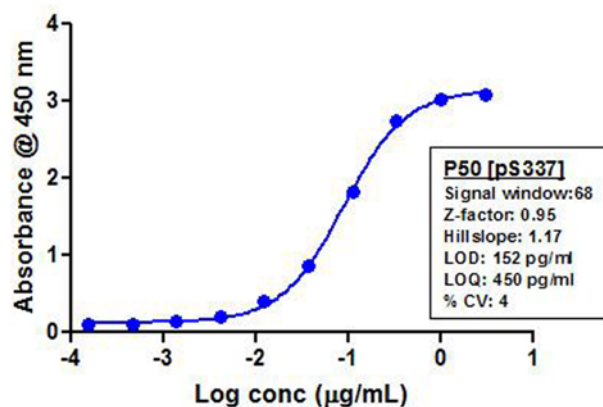


Figure 2 Indirect ELISA analysis of ABfinity™ p50 [pS337] Recombinant Rabbit Monoclonal Antibody (Cat. no. 701430).

Indirect ELISA was performed with various dilutions of ABfinity™ p50 [pS337] Recombinant Rabbit Monoclonal Antibody (Cat. no. 701430) to detect p50 [pS337] conjugated peptide coated onto the plate using a goat anti-rabbit HRP secondary antibody. A non-linear regression analysis (4 PL) was performed and LOD and LOQ for the antibody was determined.

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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