

ABfinity™ p50 [pS337] Recombinant Rabbit Oligoclonal Antibody

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

Catalog Number 710460

Pub. No. MAN0007784 Rev. 1.00

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

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

Immunogen:	Peptide corresponding to amino acids 333–341 of human p50 [pS337]
Alternate Names:	DNA-binding factor KBF1, EBP-2
Apparent MW:	~50 kDa
Gene ID:	4790
Protein Accession No.:	P19839
Sequence Identity:	Human
Isotype:	IgG
Lot:	See product label

Product applications

Application	Species	Test Material	Concentration
Western blotting	Human	Jurkat cells	1–2 µg/mL
Indirect ELISA	Human	Peptide	1.5 × 10 ⁻⁴ 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.

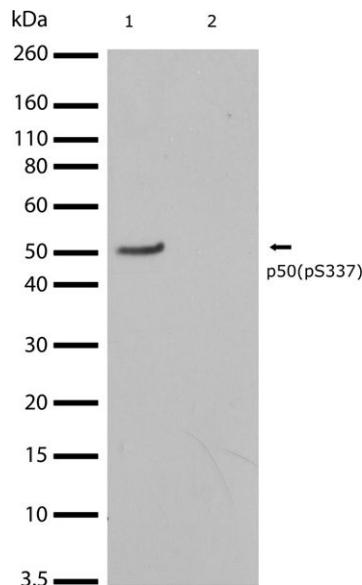


Figure 1 Western blot analysis of ABfinity™ p50 [pS 337] Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710460).

Western blot analysis was performed on whole cell extracts from TNF α treated Jurkat (20 ng/mL, 15 min), (lane 1). To confirm specificity, competition was performed by preincubation with phosphopeptide to inhibit antibody binding (lane 2). Endogenous level of p50 [pS 337] was detected at ~50 kDa using ABfinity™ p50 [pS337] Recombinant Rabbit Oligoclonal Antibody at 1 µg/mL, followed by Goat Anti-Rabbit HRP (Cat. no. G21234) as a secondary antibody. The blot was developed using enhanced chemiluminescence (ECL) method.

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 Sheet (SDS), visit <http://www.lifetechnologies.com/support>.

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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