

ABfinity™ p62 Recombinant Rabbit Monoclonal Antibody

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

Catalog Number: 701510

Pub. No. MAN0009915 **Rev.** A.00

Clonality: Monoclonal	Quantity: 100 µg	Volume: 200 µL	Concentration: 0.5 mg/mL
Host/Class: Rabbit	Reactivity: Human	Predicted Reactivity: Human p62	

Product description

The p62 protein is a multifunctional protein involved in autophagy and signal transduction. The N-terminal is involved in p62 polymerization, while the C-terminal binds to ubiquitinated proteins. The p62 protein acts as a scaffold for ubiquitinated targets, which result in formation of protein aggregates that can be degraded by autophagic machinery.

Product specifications

Immunogen:	Peptide corresponding to amino acids 90–104 and amino acids 254–268 of human p62.
Alternate Names:	SQSTM1, ORCA, OSIL, EBIAP, P60, Ubiquitin-binding protein p62, Sequestosome-1
Apparent MW:	~ 62 kDa
Gene ID:	8878
Protein Accession No.:	q13501
Sequence Identity:	Human
Sequence Homology:	Monkey, Pig, Sheep, Bovine, Mouse, Cat, Rat
Clone/PAD:	11HC14LC25
Isotype:	IgG
Lot:	See product label

Product applications

Application	Species	Test Material	Concentration
Western blotting	Human	HeLa cells	0.5 µg/mL
Indirect ELISA	Human	Peptide	1.5 × 10 ⁻⁴ to 3 µg/mL
Immunocytochemistry	Human	HeLa cells	1 µg/mL

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.

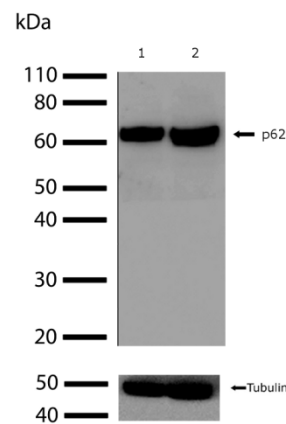


Figure 1 Western Blot analysis of ABfinity™ p62 Recombinant Rabbit Oligoclonal Antibody (Cat. no. 701510).

Western blot analysis was performed on 200 ng of p62 recombinant protein (lane 1), and extracts from HeLa cells treated with 60 mM chloroquine for 16 hours (lane 2). Endogenous levels of p62 were detected at ~62 kDa using the ABfinity™ p62 Recombinant Rabbit Oligoclonal 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).

Stability

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

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

This product may be covered by one or more Limited Use Label Licenses. By use of this product, you accept the terms and conditions of all applicable Limited Use Label Licenses.

Limited product warranty

Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale found on Life Technologies' website at www.lifetechnologies.com/termsandconditions. If you have any questions, please contact Life Technologies at www.lifetechnologies.com/support.

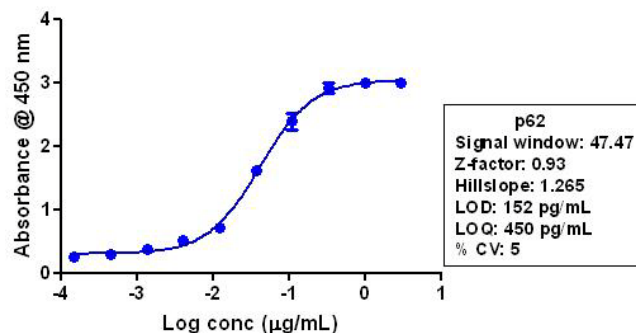


Figure 2 Indirect ELISA analysis of ABfinity™ p62 Recombinant Rabbit Oligoclonal Antibody (Cat. no. 701510).

Indirect ELISA was performed with various dilutions of ABfinity™ p62 Recombinant Rabbit Monoclonal Antibody (Cat. no. 701510) to detect p62 peptide coated onto the plate using a goat anti-rabbit HRP secondary antibody. A non-linear regression analysis was performed (4 PL) and LOD and LOQ for the antibody was determined.

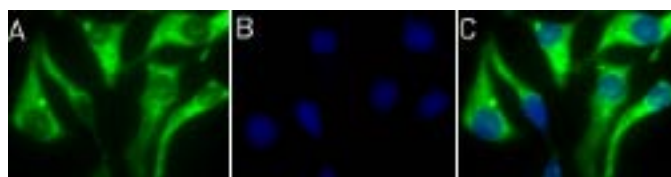


Figure 3 Immunocytochemistry analysis of ABfinity™ p62 Recombinant Rabbit Oligoclonal Antibody (Cat. no. 701510).

Immunocytochemistry analysis of HeLa cells treated with 60 µM chloroquinone for overnight stained with ABfinity™ p62 Recombinant Rabbit Monoclonal Antibody using a: Alexa Fluor® 488 goat anti-rabbit as a secondary antibody (green). b: DAPI stained HeLa nuclei (blue). c: Composite image of cells showing cytoplasmic localization of p62.

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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