

ABfinity™ Ubiquitin Recombinant Rabbit Oligoclonal Antibody

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Rev. 1.00

Catalog Number: 710362

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

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

Product Description

Ubiquitin is a conserved 76-amino acid polypeptide involved in proteasomal degradation, and posttranslation modifications. Ubiquitin dependent proteolysis occurs through covalent attachment of the peptide to a lysine residue of the target protein, catalyzed by three enzymatic reactions. The degradation of proteins by the ubiquitin pathway is important as it impacts a most cellular processes, including the cellular growth and proliferation, antigen processing, DNA transcription and repair, and modulation of cell surface receptors.

Product Specifications

Immunogen:	Peptide corresponding to amino acids 32–58 of human Ubiquitin
Apparent MW:	8.5 kDa
Gene ID:	7314
Protein Accession No.:	P0CG47
Sequence Identity:	Human
Sequence Homology:	Mouse, Rat, Monkey, Rabbit
Clone/PAD:	10HCLC
Lot:	See product label

Product Applications

Application	Species	Test Material	Concentration
Western blotting	Human	K562 cells	2–3 µg/mL
Immunocytochemistry	Human	U2OS cells	1 µg/mL
Indirect ELISA	Human	Peptide	1.5 × 10 ⁻⁴ to 3 µg/mL

Stability

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

Storage and Handling

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

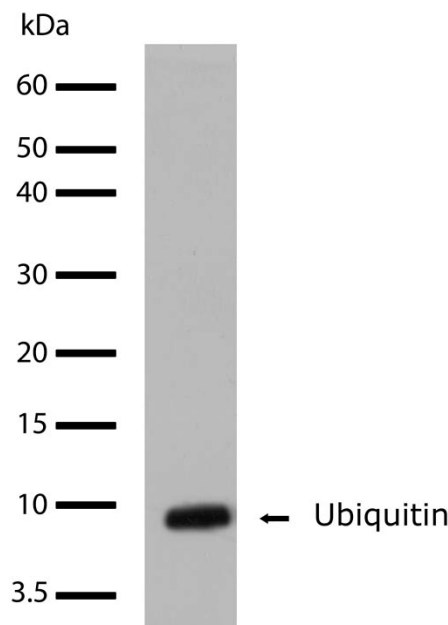


Figure 1 Western blot analysis of ABfinity™ Ubiquitin Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710362).

Western blot analysis was performed on whole cell extracts from K562 cells. Endogenous levels of Ubiquitin was detected at ~8.5 kDa using ABfinity™ Ubiquitin Recombinant Rabbit Oligoclonal Antibody at a concentration of 2 µg/mL. 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 Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. SDSs are available at www.lifetechnologies.com/support.

For research use only. Not for use in diagnostic procedures.

Manufacturing Site • 7335 Executive Way • Frederick • MD 21704 • E-mail: techsupport@lifetech.com

Product Documentation

To obtain a Certificate of Analysis or SDS, visit www.lifetechnologies.com/support.

Related Products

Product Name	Quantity	Catalog No.
iBlot® Dry Blotting System	1 unit	IB1001
WesternBreeze® Chromogenic Kit Anti-Rabbit	1 kit	WB7105
WesternBreeze® Chemiluminescent Kit, Anti-Rabbit	1 kit	WB7106

Limited Product Warranty

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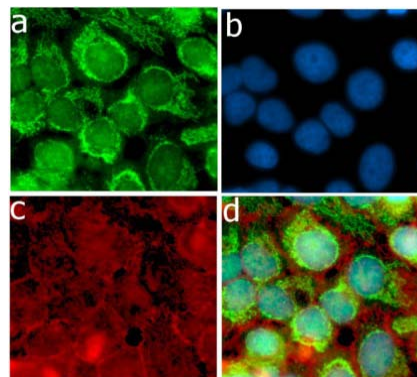


Figure 2 Immunocytochemistry analysis of ABfinity™ Ubiquitin Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710362).

Immunocytochemistry analysis of U2OS cells stained with ABfinity™ Ubiquitin Recombinant Rabbit Oligoclonal Antibody, using **a:** Alexa Fluor® 488 goat anti-rabbit as a secondary antibody (green). **b:** DAPI stained U2OS nuclei (blue). **c:** Actin stained with Alexa Fluor® 594 phalloidin (red). **d:** Composite image of cells showing cytoplasmic localization of Ubiquitin.

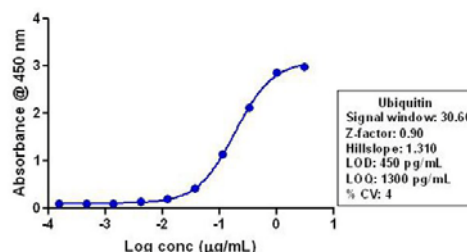


Figure 3 Indirect ELISA of ABfinity™ Ubiquitin Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710362).

Indirect ELISA was performed using various dilutions of ABfinity™ Ubiquitin Recombinant Rabbit Oligoclonal Antibody to detect Ubiquitin peptide coated onto the plate. A non-linear regression analysis was performed (4 PL) 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		

Limited Use Label License No. 327: Recombinant Antibody Technology

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