

ABfinity™ p62 Recombinant Rabbit Oligoclonal Antibody

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

Catalog Number 710539

Pub. No. MAN0009608 Rev. 1.00

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

Product Description

p62 is a scaffold protein which plays an important role in autophagy by acting a link in recognizing ubiquitinated targets and presenting them to autophagic machinery. The N-terminus of p62 aids in polymerization, while the C-terminus aids in binding to ubiquitinated proteins and to autophagosomal proteins like LC3. p62 is ubiquitously expressed in adult tissues. It co-localizes with ubiquitinated proteins in protein bodies found in the cytosol and nucleus, or within autophagosomes and lysosomal structures.

Product Specifications

| | |
|-------------------------------|---|
| Immunogen: | Peptide corresponding to amino acids 90–104 & 254–268 of human p62 |
| Apparent MW: | ~62 kDa |
| Gene ID: | 8878 |
| Synonyms: | SQSTM1, ORCA, OSIL, EBIAP, P60, Ubiquitin-binding protein p62, Sequestosome-1 |
| Protein Accession No.: | q13501 |
| Sequence Identity: | Human |
| Isotype: | IgG |
| Lot: | See product label |

Product Applications

| Application | Species | Test Material | Concentration |
|----------------------|---------|---------------|-----------------------------------|
| Western blotting | Human | HeLa cells | 1–2 µg/mL |
| Indirect ELISA | Human | Peptide | 1.5 × 10 ⁻⁴ to 3 µg/mL |
| Immuno-cytochemistry | Human | HeLa cells | 2 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.

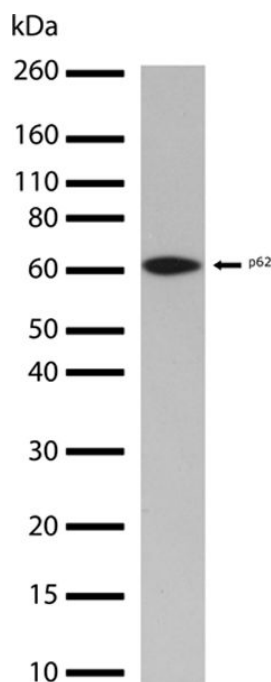


Figure 1 Western blot analysis of ABfinity™ p62 Recombinant Rabbit Oligoclonal Antibody [Cat. no. 710539].

Western blot analysis was performed on whole extracts of U2OS, treated with chloroquine at 60 µM for overnight. Endogenous level of p62 was detected at ~62 kDa using ABfinity™ p62 Recombinant Rabbit Oligoclonal Antibody at a concentration of 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>.

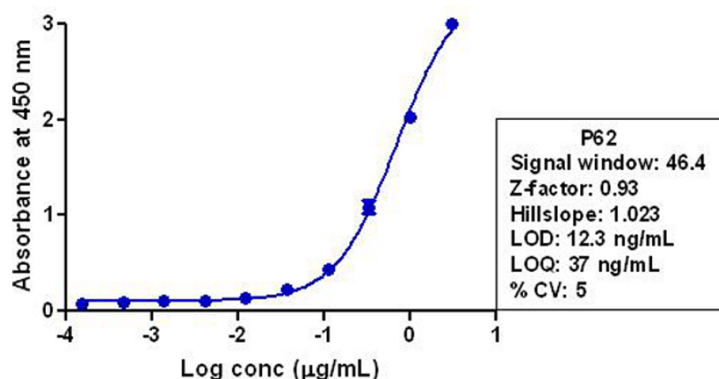


Figure 2 Indirect ELISA of ABfinity™ p62 Recombinant Rabbit Oligoclonal Antibody [Cat. no. 710539].

Indirect ELISA was performed to detect various dilutions of ABfinity™ p62 Recombinant Rabbit Oligoclonal Antibody, followed by Goat Anti-Rabbit HRP (Cat. no. G21234), to detect p62 conjugated 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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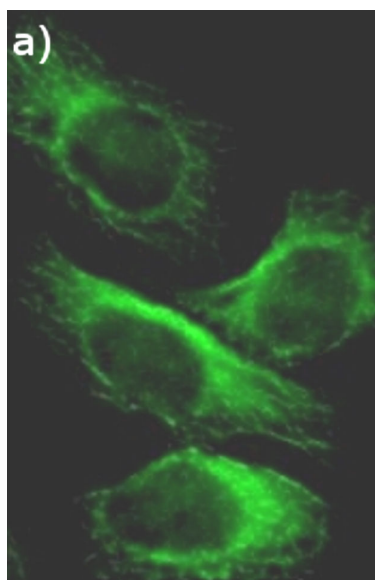


Figure 3 Immunocytochemistry analysis of ABfinity™ p62 Recombinant Rabbit Oligoclonal Antibody [Cat. no. 710539].

Immunocytochemistry analysis of HeLa cells stained with ABfinity™ p62 Recombinant Rabbit Oligoclonal Antibody using Alexa Fluor® 488 goat anti-rabbit as a secondary antibody (green).

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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