

## Rabbit anti-Human p62 Polyclonal Antibody | anti-p62 antibody

RABBIT ANTI HUMAN p62 (pThr269/pSer272)

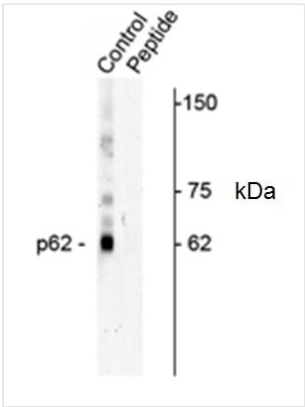
|                              |                       |                            |                                     |
|------------------------------|-----------------------|----------------------------|-------------------------------------|
| CATALOG #<br><b>AAA50278</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Western Blot</b> |
|------------------------------|-----------------------|----------------------------|-------------------------------------|

### PRODUCT SYNONYMS

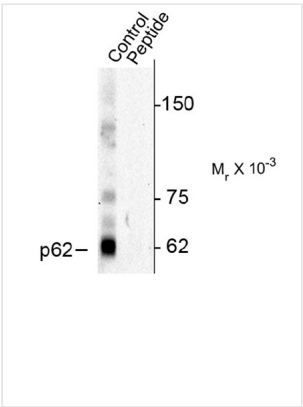
p62; Polyclonal Antibody; RABBIT ANTI HUMAN p62 (pThr269/pSer272); anti-p62 antibody

### PRODUCT SPECIFICATIONS

|                                               |                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Rabbit                                                                                                                                                                                                                                                                                  |
| Reactivity                                    | Human                                                                                                                                                                                                                                                                                   |
| Clonality                                     | Polyclonal                                                                                                                                                                                                                                                                              |
| Isotype                                       | IgG                                                                                                                                                                                                                                                                                     |
| Specificity                                   | p62                                                                                                                                                                                                                                                                                     |
| Form/Format                                   | Purified IgG - liquid                                                                                                                                                                                                                                                                   |
| Sequence Length                               | 440                                                                                                                                                                                                                                                                                     |
| Applicable Applications for anti-p62 antibody | WB (Western Blot)                                                                                                                                                                                                                                                                       |
| Reactivity Notes                              | Primate                                                                                                                                                                                                                                                                                 |
| Preservative Stabilisers                      | 0.09% Sodium Azide (NaN <sub>3</sub> ), 1% Bovine Serum Albumin, 50% Glycerol                                                                                                                                                                                                           |
| Buffer Solution                               | HEPES buffered saline                                                                                                                                                                                                                                                                   |
| Antiserum Preparation                         | Antiserum to p62 (pThr269/pSer272) was raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG was prepared by affinity purification via sequential chromatography on phospho- and dephospho-peptide affinity columns.                                   |
| Preparation and Storage                       | Store at +4 degree C or at -20 degree C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.<br>Shelf Life: 12 months from date of despatch |



**WB (Western Blot)**  
Western blot of Jurkat cell lysate showing specific immunolabeling of the ~62 kDa p62 phosphorylated at Thr269/Ser272 (control). Phospho-specificity is shown in the second lane where immunolabeling is blocked by preadsorption of the phospho-peptide used as antigen



**WB (Western Blot)**  
Western blot of Jurkat cell lysate showing specific immunolabeling of the ~62 kDa p62 protein phosphorylated at Thr269/Ser272 (Control). Phosphospecificity is shown in the second lane where immunolabeling is blocked by preadsorption of the phospho-peptide used as antigen (peptide) but not by the corresponding diphosphopeptide (not shown).

ADDITIONAL INFORMATION

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| Related Product Information for anti-p62 antibody | Rabbit anti Human p62 (pThr269/pSer272) antibody recognizes p62, also known as SQSTM1, when phosphorylated at threonine 269 and serine 272. The protein scaffold and signaling regulator p62 known as sequestosome 1 is encoded for by the SQSTM1 gene. It is important in regulating critical cellular functions, including bone homeostasis, obesity, and cancer via its interactions with various signaling intermediaries. This gene encodes a multifunctional protein that binds ubiquitin and regulates activation of the nuclear factor kappa-B (NF-κB) signaling pathway. The protein functions as a scaffolding/adaptor protein in concert with TNF receptor-associated factor 6 to mediate activation of NF-κB in response to upstream signals. p62 plays an important role in bone remodeling, a normal process in which old bone is broken down and new bone is created to replace it. The p62 protein helps regulate this process through its role in a chemical signaling pathway that promotes the formation of osteoclasts which break down bone tissue during bone remodeling. Studies have also suggest that p62 may have other functions in addition to its role in bone remodeling. It may be involved in recycling worn-out cell parts and unneeded proteins (autophagy), the self-destruction of cells (apoptosis), and the body's immune responses and inflammatory reactions. p62 is an integral component of inclusions in brains of various neurodegenerative disorders, including Alzheimer disease (AD) neurofibrillary tangles (NFTs) and Lewy bodies in Parkinson disease. p62 plays an important role in the protection of cells from the toxicity of misfolded proteins by enhancing aggregate formation especially in the later stages. p62 is overexpressed in many human cancers and is induced during cell transformation. cdk1 phosphorylates p62 in vitro and in vivo at T269 and S272, which is necessary for the maintenance of appropriate cyclin B1 levels and the levels of cdk1 activity necessary to allow cells to properly enter and exit mitosis. The lack of cdk1-mediated phosphorylation of p62 leads to a faster exit from mitosis, translating into enhanced cell proliferation and tumorigenesis in response to Ras-induced transformation. |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                |
|----------------------------------|----------------------------------------------------------------|
| NCBI GI #                        | 74735628                                                       |
| NCBI GeneID                      | 8878                                                           |
| UniProt Accession #              | Q13501; Q13446; Q9BUV7; Q9BVS6; Q9UEU1; A6NFN7; B2R661; B3KUW5 |
| Molecular Weight                 | 38,629 Da                                                      |
| NCBI Official Full Name          | Sequestosome-1                                                 |
| NCBI Official Synonym Full Names | sequestosome 1                                                 |
| NCBI Official Symbol             | SQSTM1                                                         |
| NCBI Official Synonym Symbols    | p60; p62; A170; OSIL; PDB3; ZIP3; p62B; FTDALS3                |
| NCBI Protein Information         | sequestosome-1                                                 |

|                            |                        |
|----------------------------|------------------------|
| UniProt Protein Name       | Sequestosome-1         |
| UniProt Gene Name          | <b>SQSTM1</b>          |
| UniProt Synonym Gene Names | ORCA; OSIL; EBIAP; p60 |
| UniProt Entry Name         | SQSTM_HUMAN            |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/polyclonal/p62-antibody-western-blot-elisa/50278>