

# Anti-Phospho-Ser<sup>28</sup> p62 Antibody



**PhosphoSolutions®**  
Antibodies that work™  
www.phosphosolutions.com  
orders@phosphosolutions.com  
888-442-7100

**Catalog #:** p196-28

**Size:** 100 µl

**Cite this Antibody:** PhosphoSolutions Cat# p196-28, RRID:AB\_2492197

Host	Applications	Species Tested	Species Reactivity*	Molecular Weight
Rabbit	WB 1:1000	H	NHP	~48 kDa

**Product Description:** Affinity purified rabbit polyclonal antibody.

**Biological Significance:** p62, also known as sequestosome1 (SQSTM1), is a shuttle protein transporting polyubiquitinated proteins for both proteasomal and lysosomal degradation. 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 (Nogalaska et al., 2009). 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 (Nakaso et al., 2004). Phosphorylation of Ser28 has recently been demonstrated to be related to the pathogenesis of Parkinson's disease.

**Antigen:** Phosphopeptide corresponding to amino acid residues surrounding the phospho-Ser<sup>28</sup> of human p62.

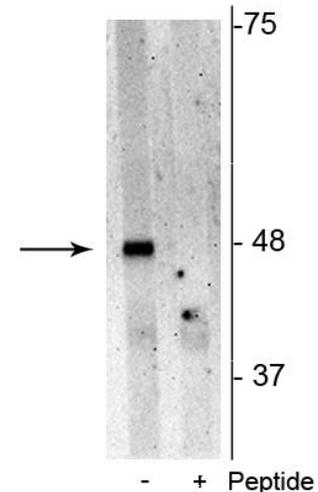
**Antibody Specificity:** Specific for endogenous levels of the ~48 kDa p62 protein phosphorylated at Ser<sup>28</sup>. Immunolabeling is blocked by preadsorption with the phosphopeptide used as antigen, but not by the corresponding non-phosphopeptide.

**Purification Method:** Prepared from pooled rabbit serum by affinity purification via sequential chromatography on phospho and non-phosphopeptide affinity columns.

**Quality Control Tests:** Western blots performed on each lot.

**Packaging:** 100 µl in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg BSA per ml and 50% glycerol.

**Storage and Stability:** Shipped on blue ice. Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.



Western blot of Jurkat cell lysate showing specific immunolabeling of the ~48 kDa p62 phosphorylated at Ser<sup>28</sup> in the first lane (-). Phosphospecificity is shown in the second lane (+) where immunolabeling is blocked by preadsorption of the phosphopeptide used as antigen, but not by the corresponding non-phosphopeptide (not shown).

## General References:

Nogalska, A., Terracciano, C., D'Agostino, C., Engel, W.K. and Askanas, V., 2009. p62/SQSTM1 is overexpressed and prominently accumulated in inclusions of sporadic inclusion-body myositis muscle fibers, and can help differentiating it from polymyositis and dermatomyositis. *Acta neuropathologica*, 118(3), pp.407-413.

Nakaso, K., Yoshimoto, Y., Nakano, T., Takeshima, T., Fukuhara, Y., Yasui, K., Araga, S., Yanagawa, T., Ishii, T. and Nakashima, K., 2004. Transcriptional activation of p62/A170/ZIP during the formation of the aggregates: possible mechanisms and the role in Lewy body formation in Parkinson's disease. *Brain research*, 1012(1-2), pp.42-51.

**Application Key:** **WB** = Western Blot **IF** = Immunofluorescence **IHC** = Immunohistochemistry **IP** = Immunoprecipitation

**Species Reactivity Key:** **All**-All Species **A**-Avian **Amp**-Amphibian **Ar**-*Arabidopsis* **B**-Bovine **C**-Canine **Ch**-Chicken **D**-*Drosophila*  
**GP**-Guinea Pig **H**-Human **Ha**-Hamster **M**-Mouse **NHP**- Non-human primate **P**-Pig **R**-Rat **S**-Sheep **X**-*Xenopus* **Z**-Zebrafish

\*Species assumed based on 100% homology with sequence used as antigen

**For Research Use Only**