10320 Camino Santa Fe, Suite G
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Phospho-Thr269/Ser272 p62 Antibody

Affinity purified rabbit polyclonal antibody
Catalog # AN1254

Specification

Phospho-Thr269/Ser272 p62 Antibody - Product Information

Application	**WB**
Primary Accession	Q13501
Reactivity	**Human**
Predicted	**Monkey**
Host	**Rabbit**
Clonality	**polyclonal**
Calculated MW	**62 KDa**

Phospho-Thr269/Ser272 p62 Antibody - Additional Information

Gene ID	**8878**
Gene Name	**SQSTM1**

Other Names
Sequestosome-1, EBI3-associated protein of 60 kDa, EBIAP, p60, Phosphotyrosine-independent ligand for the Lck SH2 domain of 62 kDa, Ubiquitin-binding protein p62, SQSTM1, ORCA, OSIL

Target/Specificity
Synthetic phospho-peptide corresponding to amino acid residues surrounding Thr269/Ser272 conjugated to KLH.

Dilution
WB~~ 1:1000

Format
Prepared from rabbit serum by affinity purification via sequential chromatography on phospho- and dephosphopeptide affinity columns.

Antibody Specificity
Specific for the ~62k p62 protein phosphorylated at Thr269 and Ser272.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Phospho-Thr269/Ser272 p62 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping
Blue Ice

Phospho-Thr269/Ser272 p62 Antibody - Protocols

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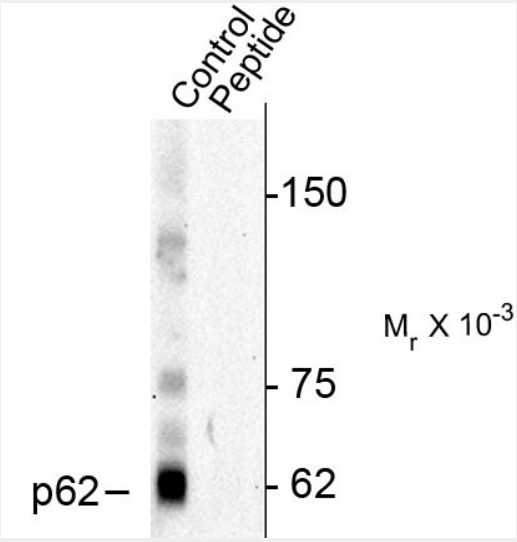
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Phospho-Thr269/Ser272 p62 Antibody - Images



Western blot of Jurkat cell lysate showing specific immunolabeling of the ~62k p62 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 dephosphopeptide (not shown).

Phospho-Thr269/Ser272 p62 Antibody - Background

The protein scaffold and signaling regulator p62 (also known as sequestosome1 (SQSTM1)) is important in critical cellular functions, including bone homeostasis, obesity, and cancer, because of its interactions with various signaling intermediaries. 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 (Moscat et al., 2011). The lack of cdk1-mediated phosphorylation of p62 leads to a faster exit from mitosis, translating into enhanced ell proliferation and tumorigenesis in response to Ras-induced transformation (Moscat et al., 2011).

Phospho-Thr269/Ser272 p62 Antibody - References

Moscat J, Linares JF, Amanchy R, Diaz-Meco MT (2011) Phosphorylation of p62 by cdk1 Controls the Timely Transit of Cells through Mitosis and Tumor Cell Proliferation. Mol Cell Biol. 1:105-17.
Pankiv S, Lamark T, Bruun JA, Øvervatn A, Bjørkøy G, and Johansen (2010). Nucleocytoplasmic Shuttling of p62/SQSTM1 and Its Role in Recruitment of Nuclear Polyubiquitinated Proteins to Promyelocytic Leukemia Bodies. J Biol Chem. 8: 5941-53