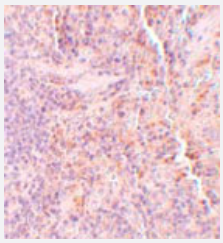
# SQSTM1 polyclonal antibody

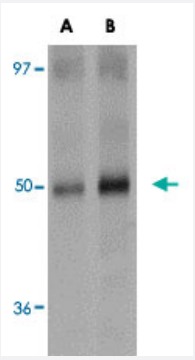
Catalog # PAB16850 Size 100 ug

## Applications



### Immunohistochemistry

Immunohistochemical staining of rat spleen tissue with 5 ug/mL SQSTM1 polyclonal antibody (Cat # PAB16850).




### Western Blot (Tissue lysate)

Western blot analysis of SQSTM1 in human spleen tissue lysate with SQSTM1 polyclonal antibody (Cat # PAB16850) at (A) 1 and (B) 2 ug/mL .

## Specification

| | |
|---|---|
| **Product Description** | Rabbit polyclonal antibody raised against synthetic peptide of SQSTM1. |
| **Immunogen** | A synthetic peptide corresponding to C-terminus 14 amino acids of human SQSTM1. |
| **Host** | Rabbit |
| **Reactivity** | Human, Mouse, Rat |
| **Form** | Liquid |
| **Recommend Usage** | Western Blot (1-2 ug/mL)<br>The optimal working dilution should be determined by the end user. |

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| | |
|---|---|
| **Storage Buffer** | In PBS (0.09% sodium azide) |
| **Storage Instruction** | Store at 4°C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Immunohistochemistry

  Immunohistochemical staining of rat spleen tissue with 5 ug/mL SQSTM1 polyclonal antibody (Cat # PAB16850).

- Enzyme-linked Immunoabsorbent Assay

- Western Blot (Tissue lysate)

  Western blot analysis of SQSTM1 in human spleen tissue lysate with SQSTM1 polyclonal antibody (Cat # PAB16850) at (A) 1 and (B) 2 ug/mL .

## Gene Info — SQSTM1

| | |
|---|---|
| **Entrez GeneID** | 8878 |
| **Protein Accession#** | Q13501 |
| **Gene Name** | SQSTM1 |
| **Gene Alias** | A170, OSIL, PDB3, ZIP3, p60, p62, p62B |
| **Gene Description** | sequestosome 1 |
| **Omim ID** | 601530 602080 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | This gene encodes a multifunctional protein that binds ubiquitin and regulates activation of the nuc lear factor kappa-B (NF-kB) signaling pathway. The protein functions as a scaffolding/adaptor pro tein in concert with TNF receptor-associated factor 6 to mediate activation of NF-kB in response t o upstream signals. Alternatively spliced transcript variants encoding either the same or different i soforms have been identified for this gene. Mutations in this gene result in sporadic and familial P aget disease of bone. [provided by RefSeq |
| **Other Designations** | EBI3-associated protein p60\|Paget disease of bone 3\|oxidative stress induced like\|phosphotyros ine independent ligand for the Lck SH2 domain p62\|ubiquitin-binding protein p62 |

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## Publication Reference

- Huntingtin knockdown dysregulates autophagic degradation of Apolipoprotein E.

  Gianna Fote, Nicolette R McClure, Robert M Bragg, Jharrayne McKnight, Leslie M Thompson, Jeffrey B Carroll, Joan S Steffan

  J Huntingtons Dis 2026 Feb; 15(1):110-123.

  Application: WB

- Huntingtin contains an ubiquitin-binding domain and regulates lysosomal targeting of mitochondrial and RNA-binding proteins.

  Gianna M Fote, Vinay V Eapen, Ryan G Lim, Clinton Yu, Lisa Salazar, Nicolette R McClure, Jharrayne McKnight, Thai B Nguyen, Marie C Heath, Alice L Lau, Mark A Villamil, Ricardo Miramontes, Ian H Kratter, Steven Finkbeiner, Jack C Reidling, Joao A Paulo, Peter Kaiser, Lan Huang, David E Housman, Leslie M Thompson, Joan S Steffan

  Proc Natl Acad Sci U S A 2024 8; 121(32):e231909112.

- Isoform-dependent lysosomal degradation and internalization of Apolipoprotein E requires autophagy proteins.

  Gianna M. Fote, Nicolette R. Geller, Nikolaos E. Efstathiou, Nathan Hendricks, Demetrios G. Vavvas, Jack C. Reidling, Leslie M. Thompson, Joan S. Steffan.

  Journal of Cell Science 2022 Jan; 135(2):jcs258687.

  Application: WB-Ce, Human, HEK293 cells

- Interplay between Leucine-Rich Repeat Kinase 2 (LRRK2) and p62/SQSTM-1 in Selective Autophagy.

  Park S, Han S, Choi I, Kim B, Park SP, Joe EH, Suh YH.

  PLoS One 2016 Sep; 11(9):e0163029.

  Application: IP-WB, WB-Tr, Human, Rat, HEK 293T cells, Rat brain

- A chimerical phagocytosis model reveals the recruitment by Sertoli cells of autophagy for the degradation of ingested illegitimate substrates.

  Yefimova MG, Messaddeq N, Harnois T, Meunier AC, Clarhaut J, Noblanc A, Weickert JL, Cantereau A, Philippe M, Bourmeyster N, Benzakour O.

  Autophagy 2013 May; 9(5):653.

  Application: WB, Rat, Rat testis

## Disease

- Genetic Predisposition to Disease
- Multiple System Atrophy
- Osteitis Deformans

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- Tobacco Use Disorder

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