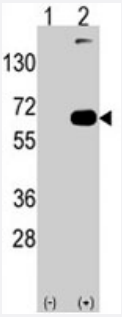
SQSTM1 polyclonal antibody

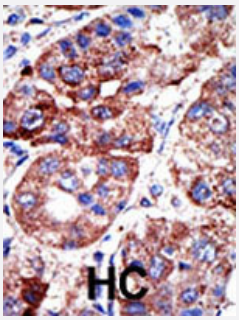
Catalog # PAB1750 Size 400 uL

Applications



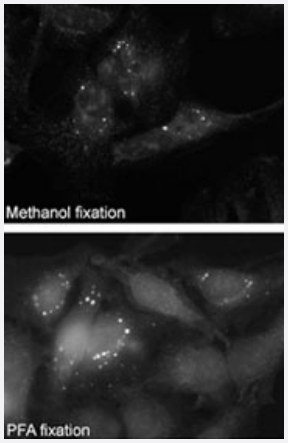
Western Blot (Transfected lysate)

Western blot analysis of SQSTM1 (arrow) using SQSTM1 polyclonal antibody (Cat # PAB1750). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the SQSTM1 gene (Lane 2) (Origene Technologies).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human hepatocellular carcinoma tissue reacted with SQSTM1 polyclonal antibody (Cat # PAB1750) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. HC = hepatocarcinoma. Data courtesy of Dr. Eeva-Liisa Eskelinen, University of Helsinki,Finland.



Immunofluorescence

Immunofluorescence staining of SQSTM1 polyclonal antibody (Cat # PAB1750) on Methanol-fixed and PFA fixed HeLa cells. Data courtesy of Dr. Eeva-Liisa Eskelinen, University of Helsinki,Finland.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of SQSTM1.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human SQSTM1.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification
Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:50-100) Immunofluorescence (1:50-100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. 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.

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Gene Info — SQSTM1

Entrez GeneID	8878
Protein Accession#	NP_003891;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

Publication Reference

- Inhibition of Autophagic Turnover in β-cells by Fatty acids and Glucose leads to Apoptotic cell Death.

  Mir SU, George NM, Zahoor L, Harms R, Guinn Z, Sarvetnick NE.

  The Journal of Biological Chemistry 2015 Mar; 290(10):6071.

  Application: IF, WB-Ce, Human, Mouse, MIN6, INS-1 cells, Pancreatic islets

- Absence of autophagy results in reactive oxygen species-dependent amplification of RLR signaling.

  Tal MC, Sasai M, Lee HK, Yordy B, Shadel GS, Iwasaki A.

  PNAS 2009 Feb; 106(8):2770.

- Impaired protein aggregate handling and clearance underlie the pathogenesis of p97/VCP-associated disease.

  Ju JS, Miller SE, Hanson PI, Weihl CC.

  The Journal of Biological Chemistry 2008 Aug; 283(44):30289.

Disease

- Genetic Predisposition to Disease

- Multiple System Atrophy
- Osteitis Deformans
- Tobacco Use Disorder