

# SQSTM1 Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Rodent, Mouse, Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	A 13 amino acid peptide from near the carboxy terminus of human SQSTM1.
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS
Contains	0.02% sodium azide
Storage conditions	Maintain refrigerated at 2-8°C for up to 3 months. For long term storage store at -20°C
RRID	AB_11157045

Applications	Tested Dilution	Publications
Western Blot (WB)	0.5-2 µg/mL	8 Publications
Immunohistochemistry (IHC)	2-5 µg/mL	1 Publication
Immunocytochemistry (ICC/IF)	20 µg/mL	5 Publications

## Product Specific Information

A suggested positive control is human spleen tissue lysate.

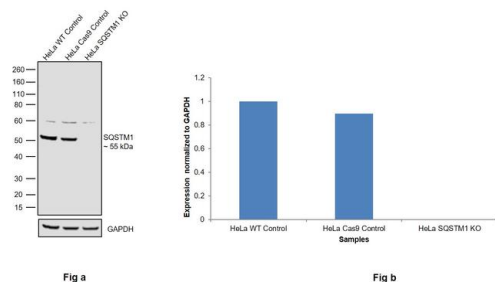
PA5-20839 can be used with blocking peptide PEP-0953.

This antibody has been tested by Western Blot in human and mouse samples; immunofluorescence and immunohistochemistry in human, mouse and rat samples. All other applications and species not yet tested.

## Product Images For SQSTM1 Polyclonal Antibody

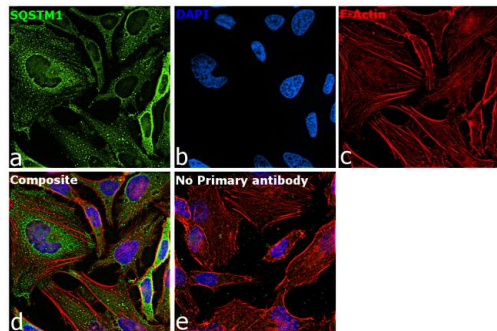
### SQSTM1 Antibody (PA5-20839)

Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. A loss of signal was observed for target protein in SQSTM1 KO cell line compared to control cell line using Anti-SQSTM1 Polyclonal Antibody (Product # PA5-20839). {KO}



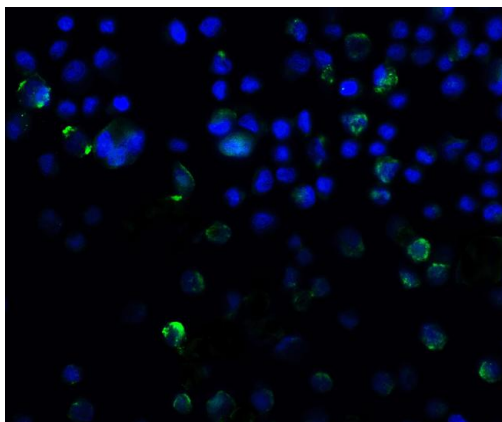
### SQSTM1 Antibody (PA5-20839) in ICC/IF

Immunofluorescence analysis of SQSTM1 was performed using 70% confluent log phase HeLa cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with SQSTM1 Polyclonal Antibody (Product # PA5-20839) at 20 µg/mL in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Goat anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32731), (1:2000 dilution), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b: Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300 dilution). Panel d represents the merged image showing cytoplasmic, Endosome-like, plasma membrane and nuclear localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



### SQSTM1 Antibody (PA5-20839) in ICC/IF

Immunofluorescent analysis of 4% paraformaldehyde-fixed A431 Cells labeling SQSTM1 with SQSTM1 Polyclonal Antibody (Product # PA5-20839) at 20 µg/mL, followed by goat anti-rabbit IgG secondary antibody at 1:500 dilution (green) and DAPI staining (blue).



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## 14 References

### Western Blot (8)

#### Nature communications

#### **NBR1 is a critical step in the repression of thermogenesis of p62-deficient adipocytes through PPAR.**

"Published figure using SQSTM1 polyclonal antibody (Product # PA5-20839) in Western Blot"

Authors: Huang J,Linares JF,Duran A,Xia W,Saltiel AR,Müller TD,Diaz-Meco MT,Moscat J

**Species**  
Mouse  
Not Applicable

**Dilution**  
1:1000  
Not Cited

**Year**  
2021

#### Frontiers in pharmacology

#### **Chick Embryo: A Preclinical Model for Understanding Ischemia-Reperfusion Mechanism.**

"Published figure using SQSTM1 polyclonal antibody (Product # PA5-20839) in Western Blot"

Authors: Fauzia E,Barbhuyan TK,Shrivastava AK,Kumar M,Garg P,Khan MA,Robertson AAB,Raza SS

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2020

[View more WB references on thermofisher.com](#)

### Immunohistochemistry (1)

#### Molecular brain

#### **Systemic overexpression of SQSTM1/p62 accelerates disease onset in a SOD1<sup>H46R</sup>-expressing ALS mouse model.**

"Published figure using SQSTM1 polyclonal antibody (Product # PA5-20839) in Immunohistochemistry"

Authors: Mitsui S,Otomo A,Nozaki M,Ono S,Sato K,Shirakawa R,Adachi H,Aoki M,Sobue G,Shang HF,Hadano S

**Species**  
Mouse  
Not Applicable

**Dilution**  
1:300  
Not Cited

**Year**  
2018

### Immunocytochemistry (5)

#### JIMD reports

#### **The Second Case of Saposin A Deficiency and Altered Autophagy.**

"PA5-20839 was used in Immunocytochemistry-immunofluorescence to report a case of Saposin A deficiency determined by a previously undescribed homozygous variant in the saposin A domain of the PSAP gene."

Authors: Kose M,Demir SA,Akinci G,Eraslan C,Yilmaz U,Ceylaner S,Yildirim ES,Seyrantepe V

**Species**  
Human

**Dilution**  
1:500

**Year**  
2020

[View more ICC/IF references on thermofisher.com](#)

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