

Datasheet for ABIN388979

**anti-SQSTM1 antibody (AA 317-346)**

6 Images

22 Publications

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## Overview

Quantity:	400 µL
Target:	SQSTM1
Binding Specificity:	AA 317-346
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SQSTM1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Immunogen:	This SQSTM1 (p62) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 317-346 amino acids of human SQSTM1 (p62).
Clone:	RB4614
Isotype:	IgG
Predicted Reactivity:	Rat
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

## Target Details

Target:	SQSTM1
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## Target Details

Alternative Name:	SQSTM1 (p62) ( <a href="#">SQSTM1 Products</a> )
Background:	SQSTM1/p62 is an adapter protein which binds ubiquitin and may regulate the activation of NFkB1 by TNF-alpha, nerve growth factor (NGF) and interleukin-1. This protein may play a role in titin/TTN downstream signaling in muscle cells, and may also regulate signaling cascades through ubiquitination. This protein is involved in cell differentiation, apoptosis, immune response and regulation of K(+) channels. SQSTM1/p62 also appears to play a role in macroautophagic removal of intracellular protein aggregates. Cellular depletion studies of SQSTM1/p62 have indicated a role for association with LC3 and aggregate proteins in order to facilitate normal formation of the autophagosome.
Molecular Weight:	47687
Gene ID:	8878
NCBI Accession:	<a href="#">NP_001135770</a> , <a href="#">NP_001135771</a> , <a href="#">NP_003891</a>
UniProt:	<a href="#">Q13501</a>
Pathways:	<a href="#">NF-kappaB Signaling</a> , <a href="#">Neurotrophin Signaling Pathway</a> , <a href="#">Autophagy</a>

## Application Details

Application Notes:	IF: 1:200. IF: 1:50~100. WB: 1:2000. WB: 1:2000. IHC-P: 1:25. IHC-P: 1:50~100
Restrictions:	For Research Use only

## Handling

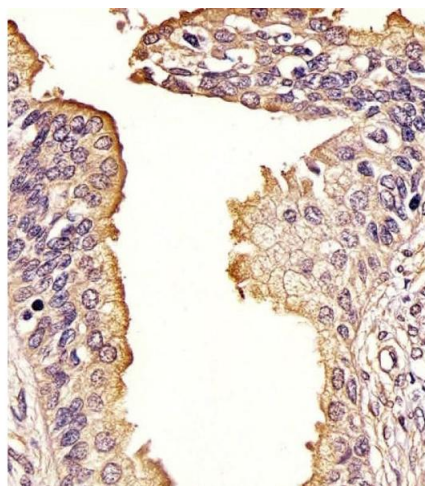
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze-thaw cycles.
Storage:	4 °C, -20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots.
Expiry Date:	6 months

## Publications

Product cited in: Wang, Liu, Zhao, Song, Wang, Wang, Sun: "Phosphorylation of CDK2 on threonine 160 influences silencing of sex chromosome during male meiosis." in: **Biology of reproduction**, Vol. 90, Issue 6, pp. 138, (2014) ([PubMed](#)).

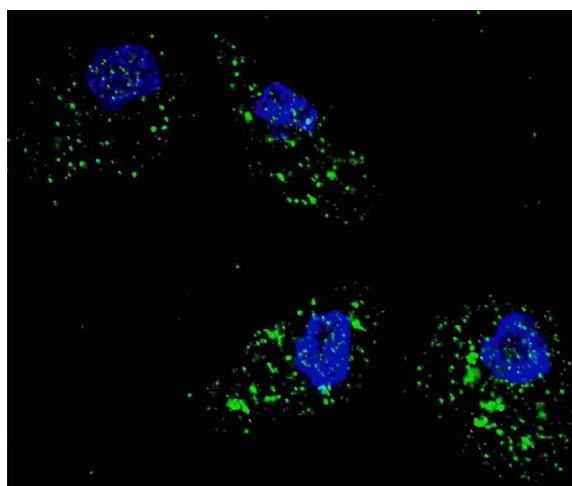
There are more publications referencing this product on: [Product page](#)

## Images



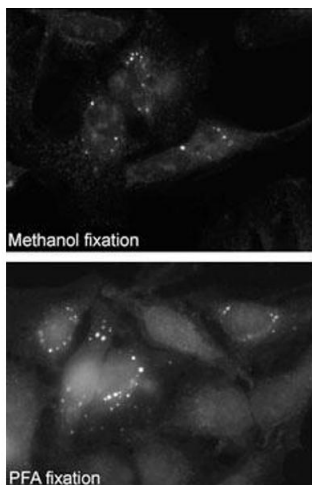
### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** (ABIN388979 and ABIN2850435) staining SQSTM1 in Human prostate tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3 % BSA for 0.5 hour at room temperature, antigen retrieval was by heat mediation with a citrate buffer (pH 6). Samples were incubated with primary antibody (1/25) for 1 hours at 37 °C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



### Immunofluorescence

**Image 2.** Fluorescent image of cells stained with SQSTM1 (p62) (C-term) antibody. cells were treated with Chloroquine (50  $\mu$ M, 16h), then fixed with 4 % PFA (20 min), permeabilized with Triton X-100 (0.2 %, 30 min). Cells were then incubated with (ABIN388979 and ABIN2850435) SQSTM1 (p62) (C-term) primary antibody (1:200, 2 h at room temperature). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:1000, 1h). Nuclei were counterstained with Hoechst 33342 (blue) (10  $\mu$ g/mL, 5 min). SQSTM1 (p62) immunoreactivity is localized to autophagic vacuoles in the cytoplasm of cells, supported by Human Protein Atlas Data (<http://www.proteinatlas.org/ENSG00000161011>).



### Immunofluorescence

**Image 3.** Immunofluorescence staining of Autophagy SQSTM1 (p62) Antibody (C-term) (ABIN388979 and ABIN2850435) on Methanol-fixed and PFA fixed HeLa cells. Data courtesy of Dr. Eeva-Liisa Eskelinen, University of Helsinki, Finland.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN388979.