

Datasheet for ABIN1881831

**anti-SQSTM1 antibody (pSer403)**[Go to Product page](#)**1** Image**5** Publications

## Overview

Quantity:	400 µL
Target:	SQSTM1
Binding Specificity:	pSer403
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SQSTM1 antibody is un-conjugated
Application:	Dot Blot (DB)

## Product Details

Immunogen:	This SQSTM1 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S403 of human SQSTM1.
Clone:	RB41445
Isotype:	Ig Fraction
Predicted Reactivity:	M, Rat
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

## Target Details

Target:	SQSTM1
Alternative Name:	SQSTM1 ( <a href="#">SQSTM1 Products</a> )

## Target Details

Background:	This gene encodes a multifunctional protein that binds ubiquitin and regulates activation of the nuclear factor kappa-B (NF- $\kappa$ B) signaling pathway. The protein functions as a scaffolding/adaptor protein in concert with TNF receptor-associated factor 6 to mediate activation of NF- $\kappa$ B in response to upstream signals. Alternatively spliced transcript variants encoding either the same or different isoforms have been identified for this gene. Mutations in this gene result in sporadic and familial Paget disease of bone.
Molecular Weight:	47687
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:	DB: 1:500
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.
Storage:	4 °C, -20 °C
Expiry Date:	6 months

## Publications

Product cited in:	Visconti, Langston, Alonso, Goodman, Selby, Fraser, Ralston: "Mutations of SQSTM1 are associated with severity and clinical outcome in paget disease of bone." in: <b>Journal of bone and mineral research : the official journal of the American Society for Bone and Mineral Research</b> , Vol. 25, Issue 11, pp. 2368-73, (2010) ( <a href="#">PubMed</a> ).
	Ding, Ni, Li, Liao, Chen, Stolz, Dorn, Yin: "Nix is critical to two distinct phases of mitophagy,

reactive oxygen species-mediated autophagy induction and Parkin-ubiquitin-p62-mediated mitochondrial priming." in: **The Journal of biological chemistry**, Vol. 285, Issue 36, pp. 27879-90, (2010) ([PubMed](#)).

Jain, Lamark, Sjøttem, Larsen, Awuh, Øvervatn, McMahon, Hayes, Johansen: "p62/SQSTM1 is a target gene for transcription factor NRF2 and creates a positive feedback loop by inducing antioxidant response element-driven gene transcription." in: **The Journal of biological chemistry**, Vol. 285, Issue 29, pp. 22576-91, (2010) ([PubMed](#)).

Lau, Wang, Zhao, Villeneuve, Wu, Jiang, Sun, White, Zhang: "A noncanonical mechanism of Nrf2 activation by autophagy deficiency: direct interaction between Keap1 and p62." in: **Molecular and cellular biology**, Vol. 30, Issue 13, pp. 3275-85, (2010) ([PubMed](#)).

Gao, Cao, Bao, Zuo, Xie, Cai, Fu, Zhang, Wu, Zhang, Chen: "Autophagy negatively regulates Wnt signalling by promoting Dishevelled degradation." in: **Nature cell biology**, Vol. 12, Issue 8, pp. 781-90, (2010) ([PubMed](#)).

## Images



### Dot Blot

**Image 1.** Dot blot analysis of SQSTM1 Antibody (Phospho) Phospho-specific Pab (ABIN1881831 and ABIN2839914) on nitrocellulose membrane. 50 ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.6 µg per ml.