

Datasheet for ABIN6256318
anti-SQSTM1 antibody (pSer403)



[Go to Product page](#)

1 Image 1 Publication

Overview

Quantity:	100 µL
Target:	SQSTM1
Binding Specificity:	pSer403
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SQSTM1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	A synthesized peptide derived from human SQSTM1/p62 around the phosphorylation site of Ser403.
Isotype:	IgG
Specificity:	Phospho-SQSTM1/p62 (Ser403) Antibody detects endogenous levels of SQSTM1/p62 only when phosphorylated at Ser403.
Predicted Reactivity:	Pig,Zebrafish,Bovine,Horse,Sheep,Rabbit,Chicken,Xenopus
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.

Target Details

Target:	SQSTM1
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Target Details

Alternative Name: SQSTM1 ([SQSTM1 Products](#))

Background: Description: Autophagy receptor required for selective macroautophagy (aggrephagy). Functions as a bridge between polyubiquitinated cargo and autophagosomes. Interacts directly with both the cargo to become degraded and an autophagy modifier of the MAP1 LC3 family (PubMed:16286508, PubMed:20168092, PubMed:24128730, PubMed:28404643, PubMed:22622177). Along with WDFY3, involved in the formation and autophagic degradation of cytoplasmic ubiquitin-containing inclusions (p62 bodies, ALIS/aggresome-like induced structures). Along with WDFY3, required to recruit ubiquitinated proteins to PML bodies in the nucleus (PubMed:24128730, PubMed:20168092). May regulate the activation of NFKB1 by TNF-alpha, nerve growth factor (NGF) and interleukin-1. May play a role in titin/TTN downstream signaling in muscle cells. May regulate signaling cascades through ubiquitination. Adapter that mediates the interaction between TRAF6 and CYLD (By similarity). May be involved in cell differentiation, apoptosis, immune response and regulation of K+ channels. Involved in endosome organization by retaining vesicles in the perinuclear cloud: following ubiquitination by RNF26, attracts specific vesicle-associated adapters, forming a molecular bridge that restrains cognate vesicles in the perinuclear region and organizes the endosomal pathway for efficient cargo transport (PubMed:27368102).

Gene: SQSTM1

Molecular Weight: 62kDa

Gene ID: 8878

UniProt: [Q13501](#)

Pathways: [NF-kappaB Signaling](#), [Neurotrophin Signaling Pathway](#), [Autophagy](#)

Application Details

Application Notes: WB 1:1000-3000, ELISA(peptide) 1:20000-1:40000

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.

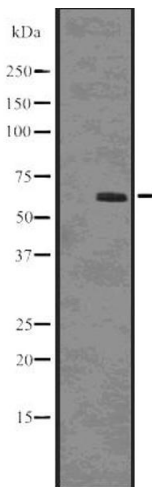
Handling

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:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

Publications

Product cited in:	Zhou, Hao, Wang, Xu: "Cereblon suppresses the formation of pathogenic protein aggregates in a p62-dependent manner." in: Human molecular genetics , Vol. 27, Issue 4, pp. 667-678, (2018) (PubMed).
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Images



Western Blotting

Image 1. Western blot analysis of Phospho-SQSTM1/p62 (Ser403) using HepG2 whole cell lysates