

Datasheet for ABIN1881831

anti-SQSTM1 antibody (pSer403)



5

Publications



Go to Product page

C)\	er	V	le	V
---	----	----	---	----	---

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 (SQSTM1 Products)		

Target Details

Background:	This gene encodes a multifunctional protein that binds ubiquitin and regulates activation of the		
	nuclear factor kappa-B (NF-kB) signaling pathway. The protein functions as a		
	scaffolding/adaptor protein in concert with TNF receptor-associated factor 6 to mediate		
	activation of NF-kB 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:	NP_001135770, NP_001135771, NP_003891		
UniProt:	Q13501		
Pathways:	NF-kappaB Signaling, Neurotrophin Signaling Pathway, Autophagy		
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: Journal of bone		
	and mineral research : the official journal of the American Society for Bone and Mineral		
	Research , Vol. 25, Issue 11, pp. 2368-73, (2010) (PubMed).		

Ding, Ni, Li, Liao, Chen, Stolz, Dorn, Yin: "Nix is critical to two distinct phases of mitophagy,

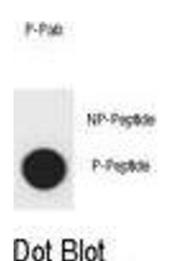
reactive oxygen species-mediated autophagy induction and Parkin-ubiquitin-p62-mediated mitochondrial priming." in: **The Journal of biological chemistry**, Vol. 285, Issue 36, pp. 27879-90, (2010) (PubMed).

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.