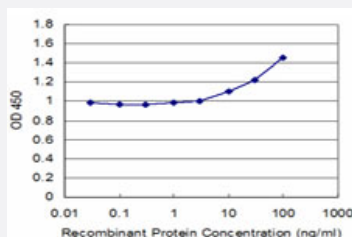


SQSTM1 monoclonal antibody (M03), clone 1C9

Catalog # H00008878-M03

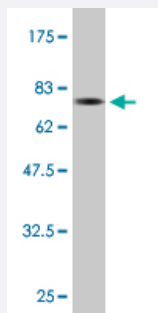
Size 100 ug

Applications



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged SQSTM1 is approximately 3ng/ml as a capture antibody.



Western Blot detection against Immunogen (74.14 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a full-length recombinant SQSTM1.

Immunogen

SQSTM1 (AAH03139.1, 1 a.a. ~ 440 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence

MASLTVKAYLLGKEDAAREIRRFSCCSPEPEAEAEAAAGPGPCERLLSRVAALFPALRPGGFQ
 AHYRDEDGDLVAFSSDEELTMAMSYVKDDIFRYKEKKECRRDHRPPCAQEAPRNMVHPNVICD
 GCNGPVVGTRYKCSVCPDYDLCSVCEGKGLHRGHTKLAFSPFGLHSEGFSSRWLRKVKHGH
 FGWPGWEMGPPGNWSPRPPRAGEARPGPTAESASGPSEDPSVNFLKNVGESVAAALSPLGIE
 VDIDVEHGGKRSRLTPVSPSSSTEESKSSSQPSSCCSDPSKPGGNVEGATQSLAEQMRKIALES
 EGRPEEQMESDNCSSGDDDDWTHLSSKEVDPSTGELQSLQMPSESGPSSLDPSQEGPTGLKEA
 ALYPHLPPEADPRLIESLSQMLSMGFSDGEGWLTRLLQTKNYDIGAALDTIQYSKHPPPL

Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (90); Rat (90)
Isotype	IgG3 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (74.14 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged SQSTM1 is approximately 3ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — SQSTM1

Entrez GeneID	8878
GeneBank Accession#	BC003139
Protein Accession#	AAH03139.1
Gene Name	SQSTM1
Gene Alias	A170, OSIL, PDB3, ZIP3, p60, p62, p62B
Gene Description	sequestosome 1
Omim ID	601530 602080

Gene Ontology

[Hyperlink](#)

Gene Summary

This gene encodes a multifunctional protein that binds ubiquitin and regulates activation of the nuclear factor kappa-B (NF-κB) signaling pathway. The protein functions as a scaffolding/adaptor protein in concert with TNF receptor-associated factor 6 to mediate activation of NF-κB 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. [provided by RefSeq]

Other Designations

EBI3-associated protein p60|Paget disease of bone 3|oxidative stress induced like|phosphotyrosine independent ligand for the Lck SH2 domain p62|ubiquitin-binding protein p62

Publication Reference

- [ADH5-mediated NO bioactivity maintains metabolic homeostasis in brown adipose tissue.](#)

Sara C Sebag, Zeyuan Zhang, Qingwen Qian, Mark Li, Zhiyong Zhu, Mikako Harata, Wenxian Li, Leonid V Zingman, Limin Liu, Vitor A Lira, Matthew J Potthoff, Alexander Bartelt, Ling Yang.

Cell Reports 2021 Nov; 37(7):110003.

Application: WB-Ce, Mouse, Mouse brown adipose tissue

- [The Unfolded Protein Response Regulates Hepatic Autophagy by sXBP1-mediated Activation of TFEB.](#)

Zeyuan Zhang, Qingwen Qian, Mark Li, Fan Shao, Wen-Xing Ding, Vitor A Lira, Sophia X Chen, Sara C Sebag, Gökhan S Hotamisligil, Huojun Cao, Ling Yang.

Autophagy 2020 Jul; 1.

Application: WB-Ti, WB-Tr, Mouse, Mouse hepatocytes, Mouse liver

- [Hepatic Lysosomal iNOS Activity Impairs Autophagy in Obesity.](#)

Qian Q, Zhang Z, Li M, Savage K, Cheng D, Rauckhorst AJ, Ankrum JA, Taylor EB, Ding WX, Xiao Y, Cao HJ, Yang L.

Cellular and Molecular Gastroenterology and Hepatology 2019 Mar; 8(1):95.

Application: WB-Ce, Mouse, Mouse hepatocytes

- [The flavonoid TL-2-8 induces cell death and immature mitophagy in breast cancer cells via abrogating the function of the AHA1/Hsp90 complex.](#)

Liu HJ, Jiang XX, Guo YZ, Sun FH, Kou XH, Bao Y, Zhang ZQ, Lin ZH, Ding TB, Jiang L, Lei XS, Yang YH.

Acta Pharmacologica Sinica 2017 May; [Epub].

Application: WB-Ce, Human, cell lysate of MDA-MB-231, MDA-MB-468, MCF-7 cells

- [IKK \$\alpha\$ controls ATG16L1 degradation to prevent ER stress during inflammation.](#)

Diamanti MA, Gupta J, Bennecke M, De Oliveira T, Ramakrishnan M, Braczynski AK, Richter B, Beli P, Hu Y, Saleh M, Mittelbronn M, Dikic I, Greten FR.

The Journal of Experimental Medicine 2017 Feb; 214(2):423.

Application: WB, Mouse, Mouse intestinal epithelial cells (IECs)

- [Tau-driven 26S proteasome impairment and cognitive dysfunction can be prevented early in disease by activating cAMP-PKA signaling.](#)

Myeku N, Clelland CL, Emrani S, Kukushkin NV, Yu WH, Goldberg AL, Duff KE.

Nature Medicine 2016 Jan; 22(1):46.

Application: IF, WB-Ti, Mouse, Cortical

- [Hypoxia counteracts taxol-induced apoptosis in MDA-MB-231 breast cancer cells: role of autophagy and JNK activation.](#)

Notte A, Ninane N, Arnould T, Michiels C.

Cell Death & Disease 2013 May; 4:e638.

Application: WB-Ce, WB-Tr, Human, MDA-MB-231 cells

- [BNIP3 protects HepG2 cells against etoposide-induced cell death under hypoxia by an autophagy-independent pathway.](#)

Cosse JP, Rommelaere G, Ninane N, Arnould T, Michiels C.

Biochemical Pharmacology 2010 Oct; 80(8):1160.

Application: WB, Human, HepG2 cells

- [A Role for NBR1 in Autophagosomal Degradation of Ubiquitinated Substrates.](#)

Kirkin V, Lamark T, Sou YS, Bjorkoy G, Nunn JL, Bruun JA, Shvets E, McEwan DG, Clausen TH, Wild P, Bilusic I, Theurillat JP, Overvatn A, Ishii T, Elazar Z, Komatsu M, Dikic I, Johansen T.

Molecular Cell 2009 Feb; 33(4):505.

Application: WB, IF, IHC, Human, Mouse, HeLa cells, liver

Disease

- [Genetic Predisposition to Disease](#)
- [Multiple System Atrophy](#)
- [Osteitis Deformans](#)
- [Tobacco Use Disorder](#)