

Recombinant Mouse Sqstm1 Protein, Myc/DDK-tagged

Cat. No. Sqstm1-6120M Lot. No. (See product label)

SPECIFICATION

Product Overview Purified recombinant protein of mouse full-length sequestosome 1 (cDNA clone MGC:5968 IMAGE:3487289), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells.

Species Mouse

Source HEK293

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. Required both for the formation and autophagic degradation of polyubiquitin-containing bodies, called ALIS (aggresome-like induced structures) and links ALIS to the autophagic machinery. Involved in midbody ring degradation. 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. 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. Promotes relocation of 'Lys-63'-linked ubiquitinated STING1 to autophagosomes. Acts as an activator of the NFE2L2/NRF2 pathway via

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interaction with KEAP1: interaction inactivates the BCR(KEAP1) complex, promoting nuclear accumulation of NFE2L2/NRF2 and subsequent expression of cytoprotective genes.

Molecular Mass	44.2 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Sqstm1 sequestosome 1 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Sqstm1
Synonyms	Sqstm1; sequestosome 1; S; p6; A17; OSF; Osi; p62; A170; STAP; OSF-6; STONE14; sequestosome-1; oxidative stress induced; ubiquitin-binding protein p62
Gene ID	18412
mRNA Refseq	NM_011018
Protein Refseq	NP_035148

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UniProt ID

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