OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for UM500013CF

SQSTM1 Mouse Monoclonal Antibody [Clone ID: UMAB13]

Product data:

Product Type:	Primary Antibodies
Clone Name:	UMAB13
Applications:	10k-ChIP, IF, IHC, WB
Recommended Dilution:	WB 1:200~500, IF 1:100, Flow 1:100, IF 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human SQSTM1 (NP_003891) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	47.5 kDa
Gene Name:	sequestosome 1
Database Link:	NP_003891 Entrez Gene 18412 MouseEntrez Gene 113894 RatEntrez Gene 8878 Human Q13501

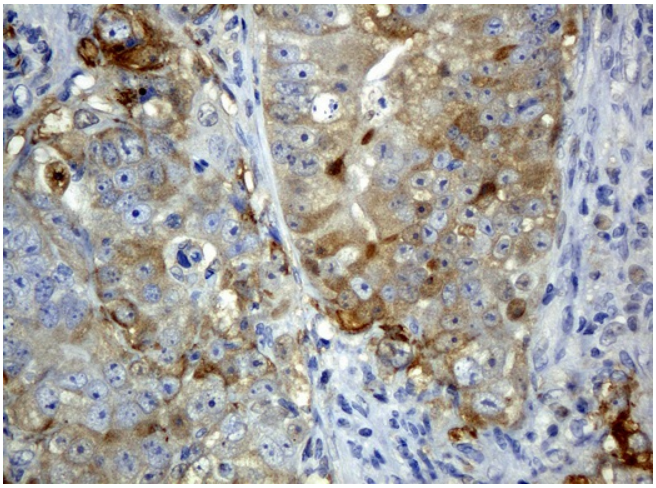
View online »

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. [provided by RefSeq]

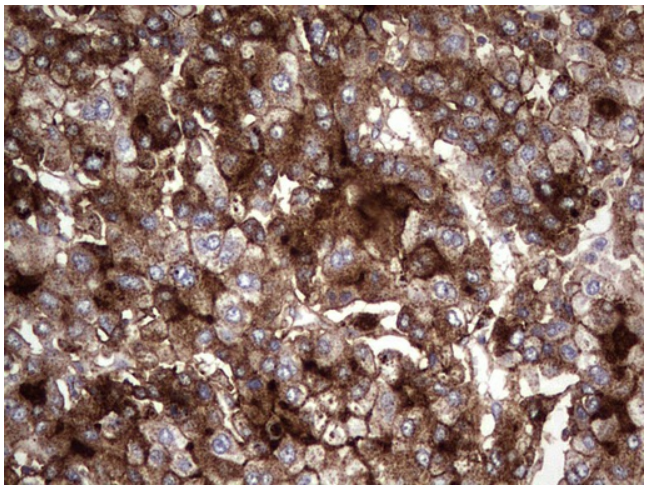
Synonyms: A170; OSIL; p60; p62; p62B; PDB3; ZIP3

Protein Families: Druggable Genome, Transcription Factors

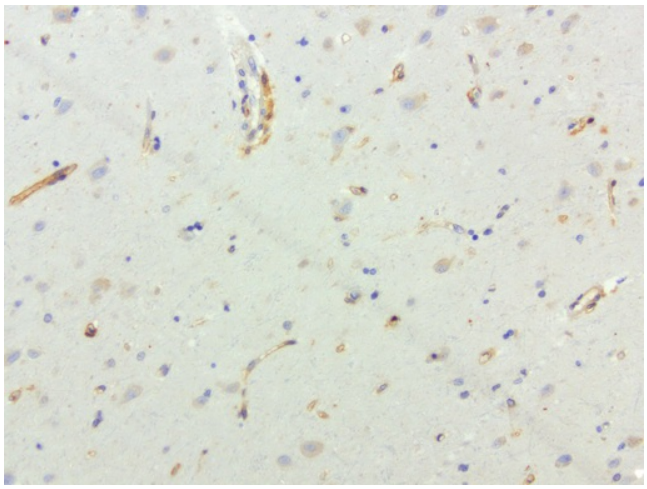
Product images:



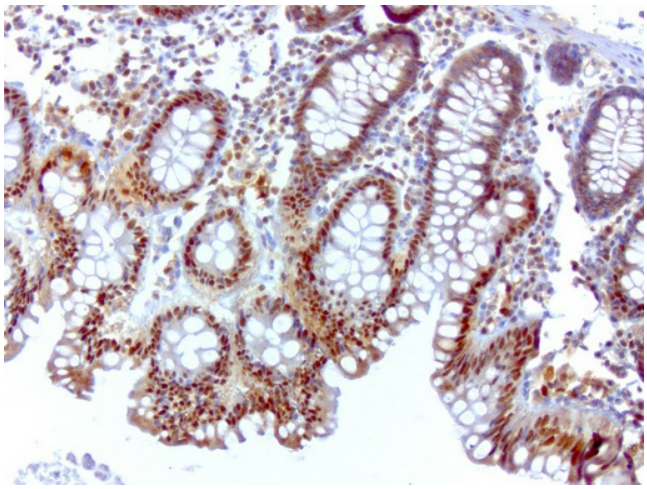
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of colon tissue using anti-SQSTM1mouse monoclonal antibody. (Clone UMAB13, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



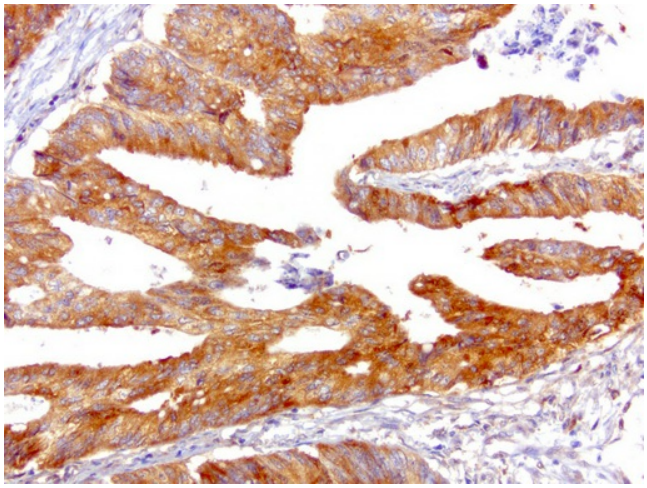
Immunohistochemical staining of paraffin-embedded Carcinoma of human liver tissue using anti-SQSTM1mouse monoclonal antibody. (Clone UMAB13, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



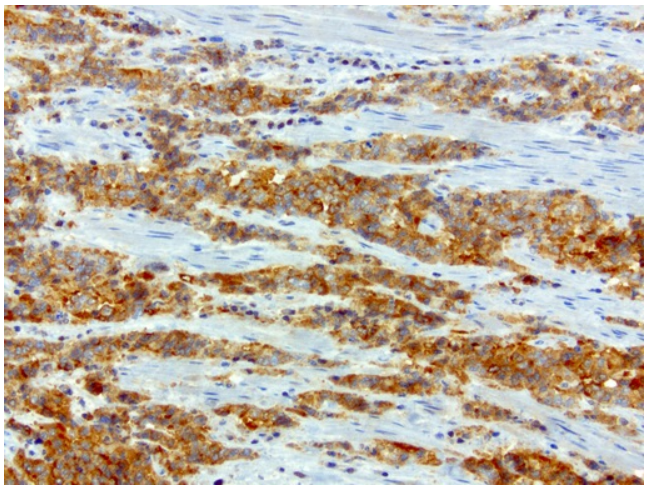
Immunohistochemical staining of paraffin-embedded human brain using anti-SQSTM1 clone UMAB13 mouse monoclonal antibody ([UM500013]) at 1:100 with Polink2 Broad HRP DAB detection kit; heat-induced epitope retrieval with GBI Accel pH 8.7 HIER buffer using pressure chamber for 3 minutes at 110C. Strong cytoplasmic staining is seen in the nueral cells.



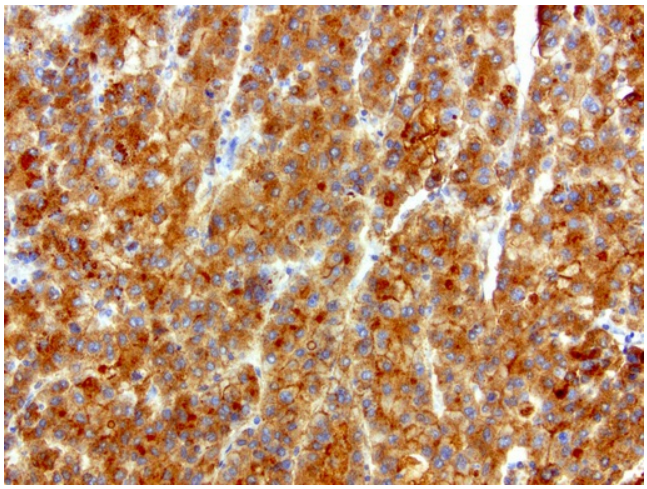
Immunohistochemical staining of paraffin-embedded human colon using anti-SQSTM1 clone UMAB13 mouse monoclonal antibody ([UM500013]) at 1:100 with Polink2 Broad HRP DAB detection kit; heat-induced epitope retrieval with GBI Accel pH 8.7 HIER buffer using pressure chamber for 3 minutes at 110C. Strong nuclear and cytoplasmic staining is seen in the epithelia cells of colon.



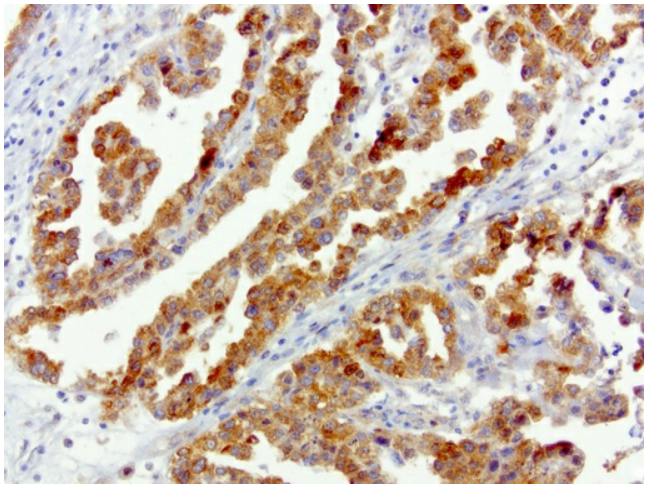
Immunohistochemical staining of paraffin-embedded human colon cancer using anti-SQSTM1 clone UMAB13 mouse monoclonal antibody ([UM500013]) at 1:100 with Polink2 Broad HRP DAB detection kit; heat-induced epitope retrieval with GBI Accel pH 8.7 HIER buffer using pressure chamber for 3 minutes at 110C. Strong cytoplasmic staining is seen in the tumor.



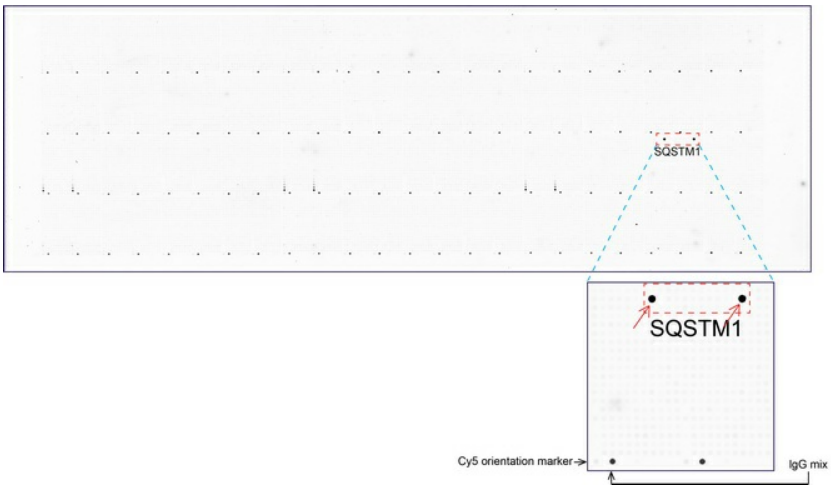
Immunohistochemical staining of paraffin-embedded human endometrial cancer using anti-SQSTM1 clone UMAB13 mouse monoclonal antibody ([UM500013]) at 1:100 with Polink2 Broad HRP DAB detection kit; heat-induced epitope retrieval with GBI Accel pH 8.7 HIER buffer using pressure chamber for 3 minutes at 110C. Strong cytoplasmic staining is seen in the tumor.



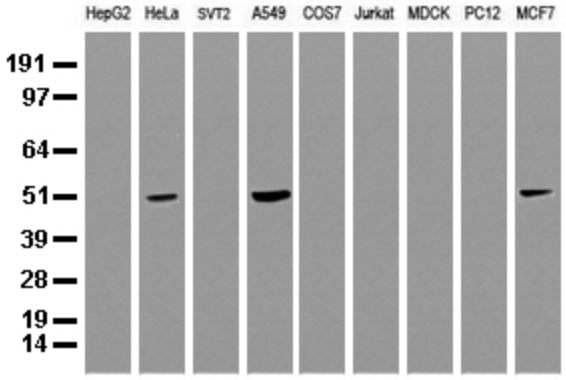
Immunohistochemical staining of paraffin-embedded human liver cancer using anti-SQSTM1 clone UMAB13 mouse monoclonal antibody ([UM500013]) at 1:100 with Polink2 Broad HRP DAB detection kit; heat-induced epitope retrieval with GBI Accel pH 8.7 HIER buffer using pressure chamber for 3 minutes at 110C. Strong cytoplasmic staining is seen in the tumor.



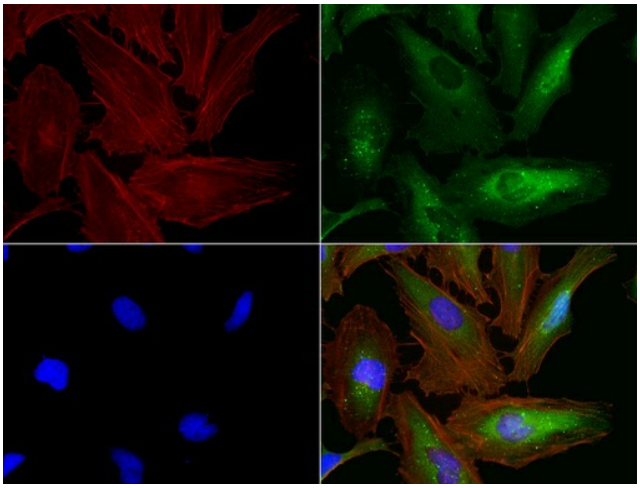
Immunohistochemical staining of paraffin-embedded human ovarian cancer using anti-SQSTM1 clone UMAB13 mouse monoclonal antibody ([UM500013]) at 1:100 with Polink2 Broad HRP DAB detection kit; heat-induced epitope retrieval with GBI Accel pH 8.7 HIER buffer using pressure chamber for 3 minutes at 110C. Strong cytoplasmic staining is seen in the tumor.



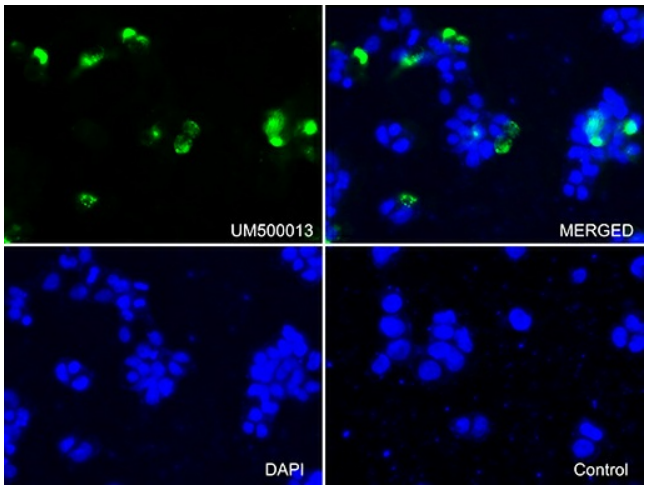
OriGene overexpression protein microarray chip was immunostained with UltraMAB anti-SQSTM1 mouse monoclonal antibody (Clone UMAB13). The positive reactive proteins are highlighted with two red arrows in the enlarged subarray. All the positive controls spotted in this subarray are also labeled for clarification. These data show that UltraMAB anti-SQSTM1 (Clone UMAB13) very specifically recognizes SQSTM1 antigen on OriGene protein microarray chip.



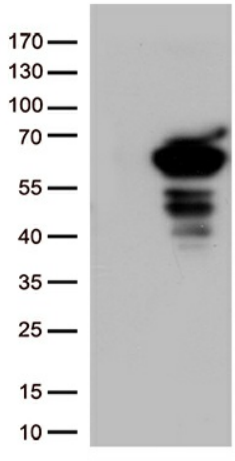
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-SQSTM1 monoclonal antibody (Clone UMAB13) at 1:500.



Immunofluorescent staining of HeLa cells using SQSTM1 mouse monoclonal antibody ([UM500013], green). Actin filaments were labeled with TRITC-phalloidin (red), and nuclear with DAPI (blue). The three-color overlay image is located at the bottom-right corner.



Immunofluorescent staining of 293T cells transfected by pCMV6-ENTRY SQSTM1 ([RC203214]) using anti-SQSTM1 antibody ([UM500013]/green, upper left; DAPI/blue, lower left; MERGED, upper right). 293T cells transfected with empty vector served as a negative control (MERGED, lower right) (1:100).



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY SQSTM1 ([RC203214], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SQSTM1 (1:500).