

Product datasheet for **UM500012CF**

SQSTM1 Mouse Monoclonal Antibody [Clone ID: UMAB12]

Product data:

Product Type:	Primary Antibodies
Clone Name:	UMAB12
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:500~2000, IHC 1:150, IF 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2b
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 Mouse Entrez Gene 113894 Rat Entrez Gene 8878 Human Q13501



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Background:

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

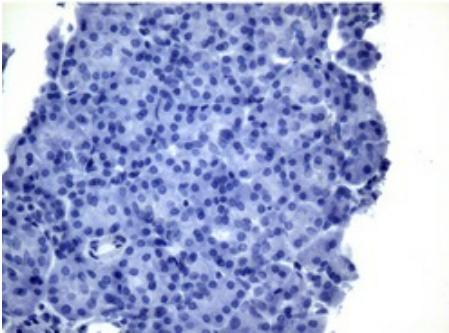
A170; OSIL; p60; p62; p62B; PDB3; ZIP3

Protein Families:

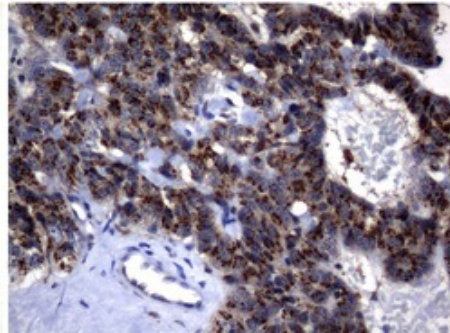
Druggable Genome, Transcription Factors

Product images:

Normal Pancreas



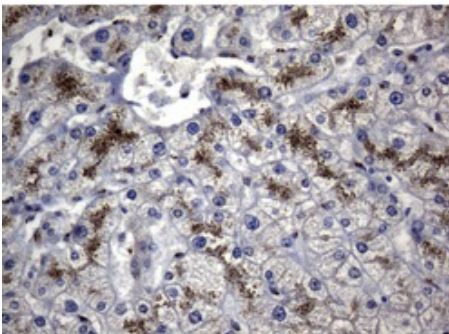
Pancreatic Carcinoma



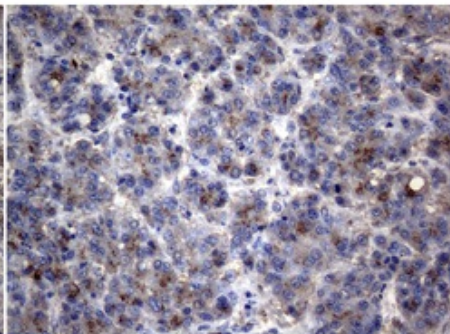
UM500012

Immunohistochemical staining of paraffin-embedded pancreas tissue using anti-SQSTM1 mouse monoclonal antibody. (Clone UMAB12, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)

Normal Liver



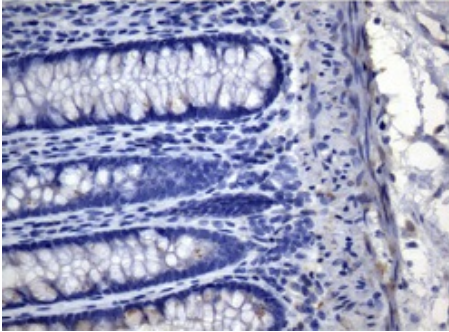
Liver Carcinoma



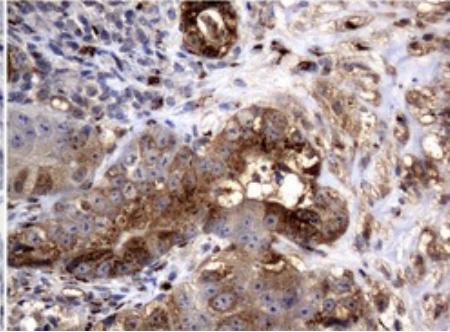
UM500012

Immunohistochemical staining of paraffin-embedded liver tissue using anti-SQSTM1 mouse monoclonal antibody. (Clone UMAB12, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)

Normal Colon



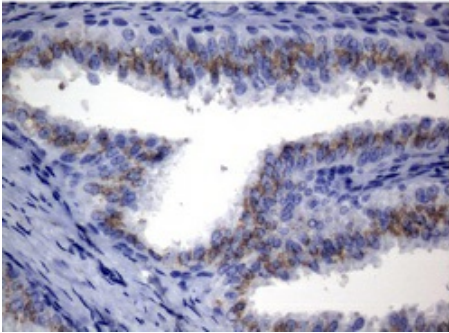
Colorectal Carcinoma



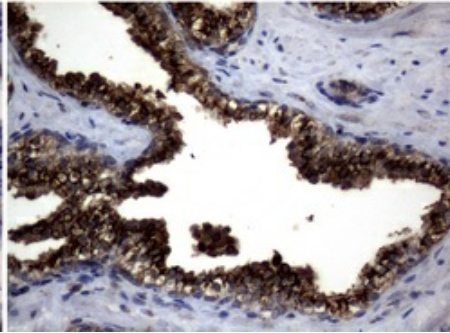
UM500012

Immunohistochemical staining of paraffin-embedded colon tissue using anti-SQSTM1 mouse monoclonal antibody. (Clone UMAB12, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)

Normal Prostate

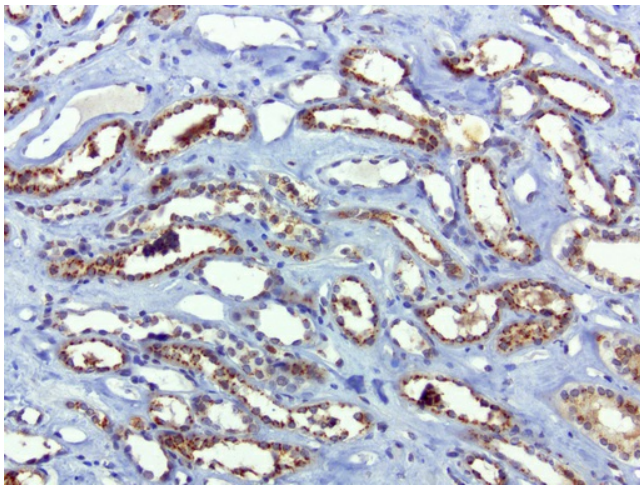


Prostate Carcinoma

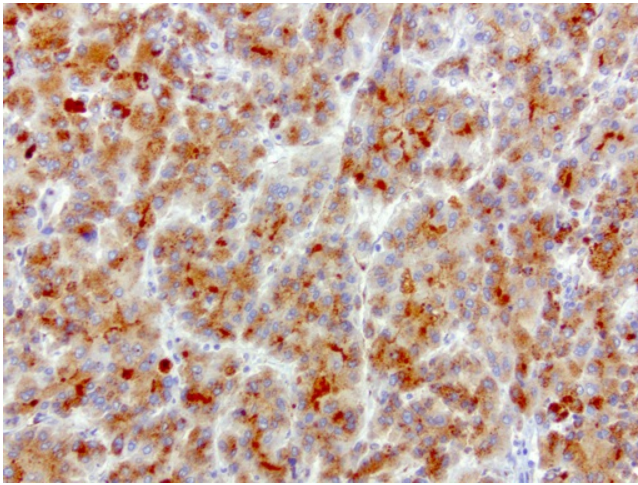


UM500012

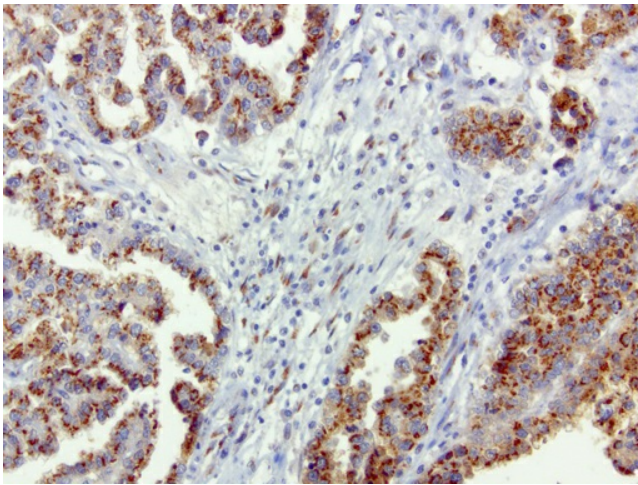
Immunohistochemical staining of paraffin-embedded prostate tissue using anti-SQSTM1 mouse monoclonal antibody. (Clone UMAB12, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



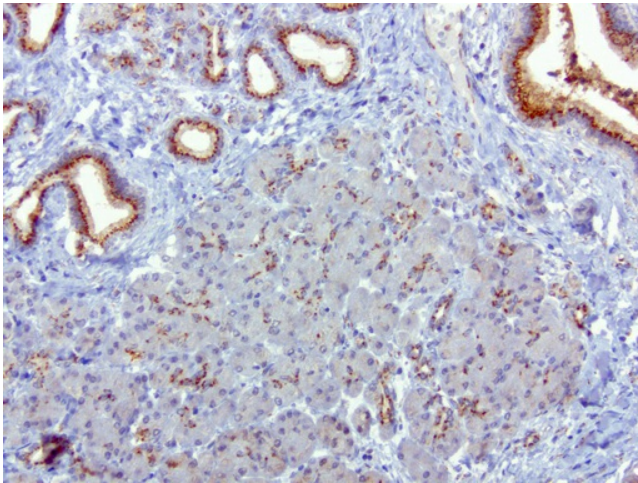
Immunohistochemical staining of paraffin-embedded human kidney using anti-SQSTM1 clone UMAB12 mouse monoclonal antibody ([UM500012]) at 1:100 with Polink2 Broad HRP DAB detection kit; heat-induced epitope retrieval with GBI Accel pH 8.7 HIER buffer using pressure chamber for 3 minutes at 110C. Strong cytoplasmic staining is seen in the tubule epithelial cells.



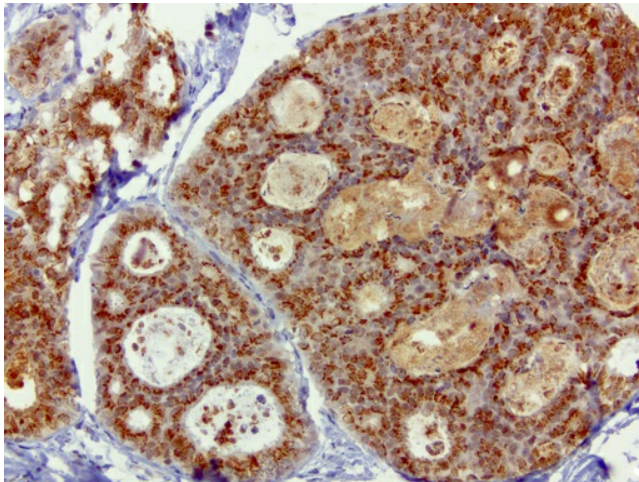
Immunohistochemical staining of paraffin-embedded human liver cancer using anti-SQSTM1 clone UMAB12 mouse monoclonal antibody ([UM500012]) at 1:100 with Polink2 Broad HRP DAB detection kit; heat-induced epitope retrieval with GBI Accel pH 8.7 HIER buffer using pressure chamber for 3 minutes at 110C. Strong cytoplasmic staining is seen in the tumor cells.



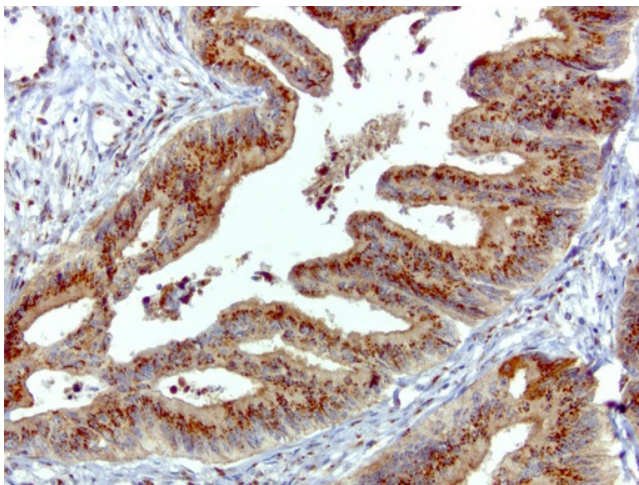
Immunohistochemical staining of paraffin-embedded human ovarian cancer using anti-SQSTM1 clone UMAB12 mouse monoclonal antibody ([UM500012]) at 1:100 with Polink2 Broad HRP DAB detection kit; heat-induced epitope retrieval with GBI Accel pH 8.7 HIER buffer using pressure chamber for 3 minutes at 110C. Strong cytoplasmic staining is seen in the tumor cells.



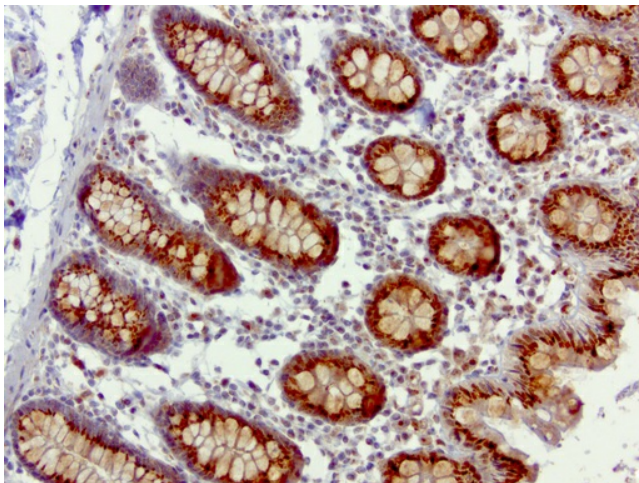
Immunohistochemical staining of paraffin-embedded human pancreatic cancer using anti-SQSTM1 clone UMAB12 mouse monoclonal antibody ([UM500012]) at 1:100 with Polink2 Broad HRP DAB detection kit; heat-induced epitope retrieval with GBI Accel pH 8.7 HIER buffer using pressure chamber for 3 minutes at 110C. Reduced cytoplasmic staining is seen in the tumor cells.



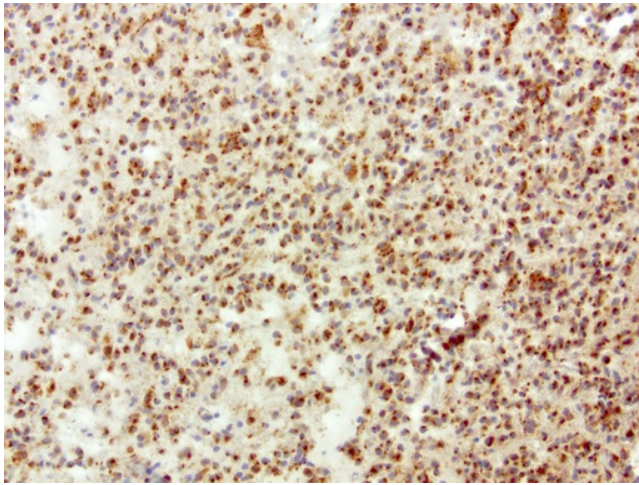
Immunohistochemical staining of paraffin-embedded human breast cancer using anti-SQSTM1 clone UMAB12 mouse monoclonal antibody ([UM500012]) at 1:100 with Polink2 Broad HRP DAB detection kit; heat-induced epitope retrieval with GBI Accel pH 8.7 HIER buffer using pressure chamber for 3 minutes at 110C. Strong cytoplasmic staining is seen in the tumor cells.



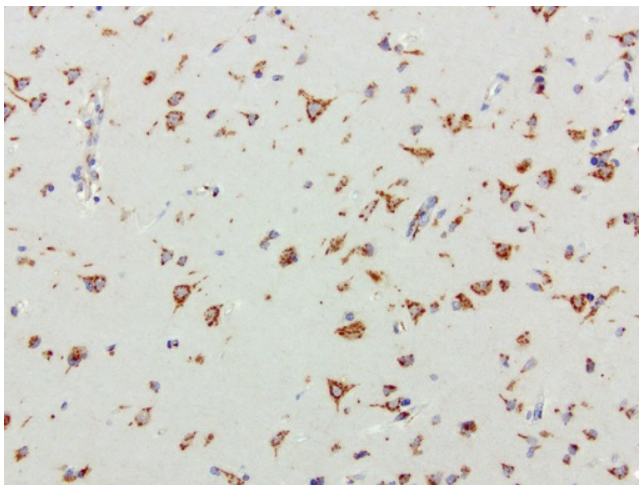
Immunohistochemical staining of paraffin-embedded human colon cancer using anti-SQSTM1 clone UMAB12 mouse monoclonal antibody ([UM500012]) at 1:100 with Polink2 Broad HRP DAB detection kit; heat-induced epitope retrieval with GBI Accel pH 8.7 HIER buffer using pressure chamber for 3 minutes at 110C. Strong cytoplasmic staining is seen in the tumor cells.



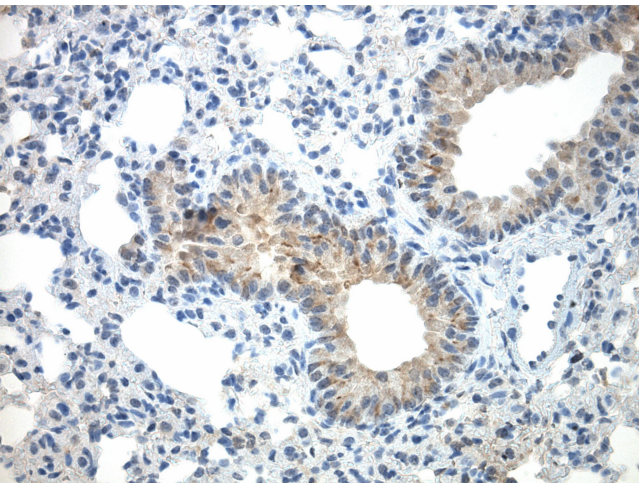
Immunohistochemical staining of paraffin-embedded human colon using anti-SQSTM1 clone UMAB12 mouse monoclonal antibody ([UM500012]) at 1:100 with Polink2 Broad HRP DAB detection kit; heat-induced epitope retrieval with GBI Accel pH 8.7 HIER buffer using pressure chamber for 3 minutes at 110C. Strong cytoplasmic staining is seen in the colon epithelial cells.



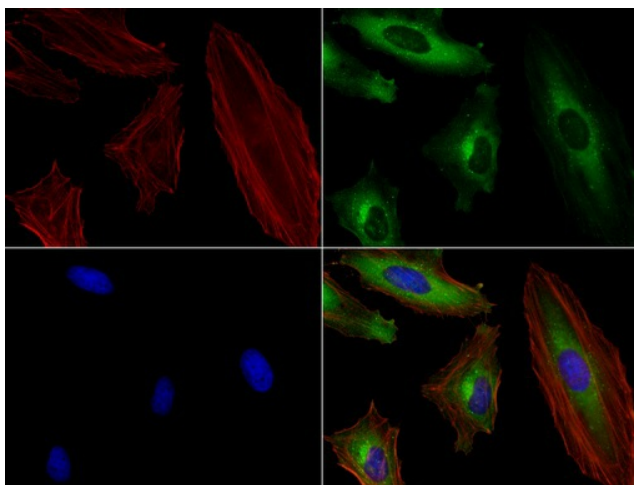
Immunohistochemical staining of paraffin-embedded human glioma using anti-SQSTM1 clone UMAB12 mouse monoclonal antibody ([UM500012]) at 1:100 with Polink2 Broad HRP DAB detection kit; heat-induced epitope retrieval with GBI Accel pH 8.7 HIER buffer using pressure chamber for 3 minutes at 110C. Strong cytoplasmic staining is seen in the tumor cells.



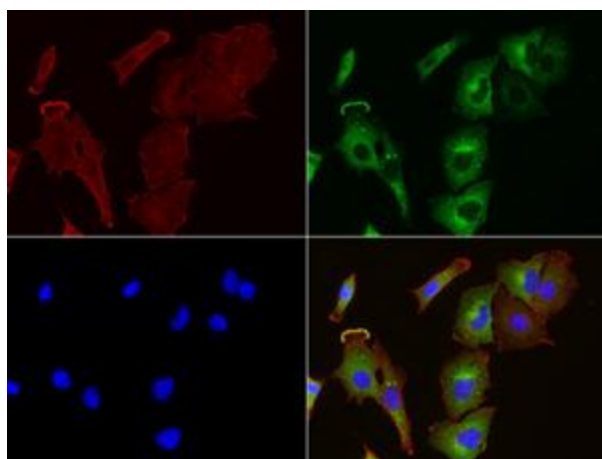
Immunohistochemical staining of paraffin-embedded human brain using anti-SQSTM1 clone UMAB12 mouse monoclonal antibody ([UM500012]) at 1:100 with Polink2 Broad HRP DAB detection kit; heat-induced epitope retrieval with GBI Accel pH 8.7 HIER buffer using pressure chamber for 3 minutes at 110C. Strong cytoplasmic staining is seen in the neural cells.



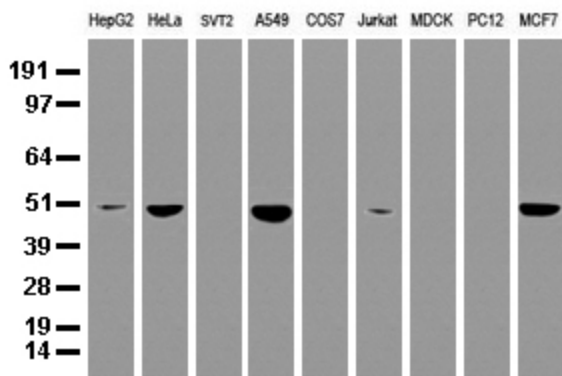
Immunohistochemical staining of paraffin-embedded mouse lung tissue using anti-SQSTM1 clone UMAB12 mouse monoclonal antibody. HIER TEE buffer pH9 ([B21-100]) at 110C for 10 min, [UM500012] (1:100). Detection was done with Klear Mouse (C/N [D52-18]) DAB Kit.



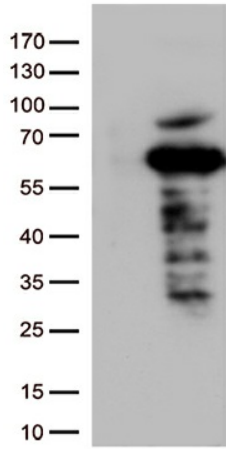
Immunofluorescent staining of HeLa cells using SQSTM1 mouse monoclonal antibody ([UM500012], green). Actin filaments were labeled with TRITC-phalloidin (red), and nuclear with DAPI (blue). The three-color overlay image is located at the bottom-right corner.



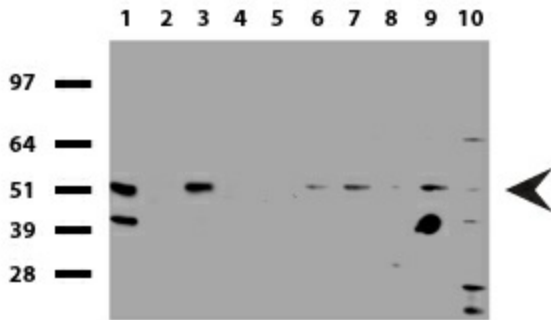
Immunofluorescent staining of 293T cells transfected by pCMV6-ENTRY SQSTM1 ([RC203214]) using anti-SQSTM1 antibody ([UM500012]/green, upper left; DAPI/blue, lower left; MERGED, upper right). 293T cells transfected with empty vector served as a negative control (MERGED, lower right) (1:100).



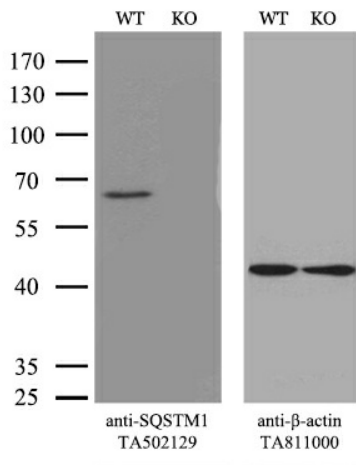
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-SQSTM1 monoclonal antibody (Clone UMAB12) at 1:500.



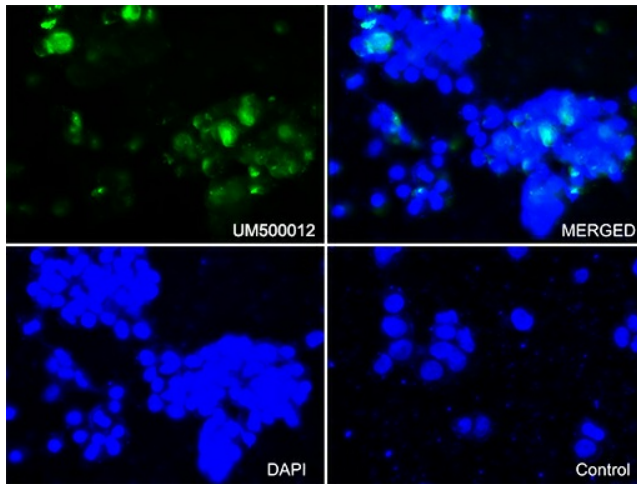
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY SQSTM1 ([RC203214], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SQSTM1 (1:500).



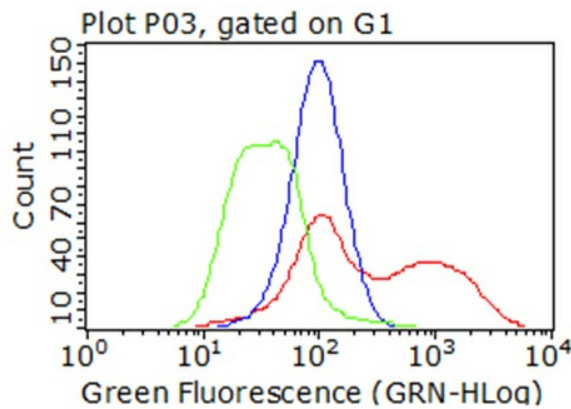
Western blot of human tissue lysates (15ug) from 10 different tissues (1: Testis, 2: Omentum, 3: Uterus, 4: Breast, 5: Brain, 6: Liver, 7: Ovary, 8: Thyroid 9: Colon, 10: Spleen). Dilution: 1:500.



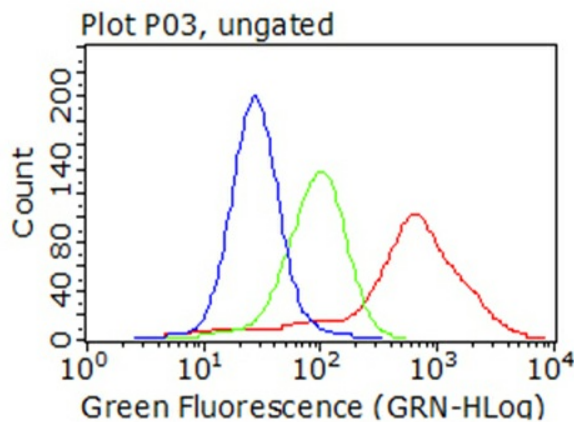
Equivalent amounts of cell lysates (10 ug per lane) of wild-type 293T cells (WT, Cat# LC810293T) and SQSTM1-Knockout 293T cells (KO, Cat# [LC810279]) were separated by SDS-PAGE and immunoblotted with anti-SQSTM1 monoclonal antibody [UM500012], (1:500). Then the blotted membrane was stripped and reprobed with anti-β-actin antibody ([TA811000]) as a loading control.



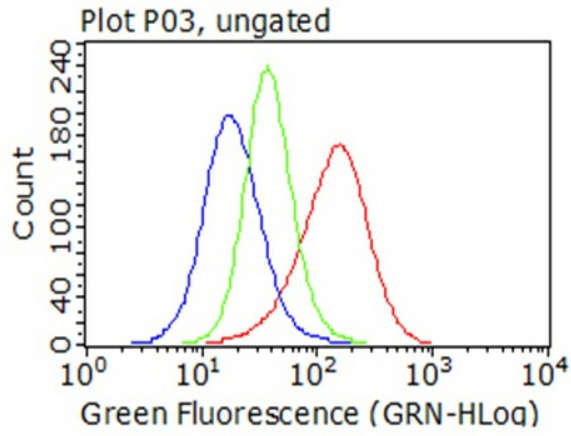
Immunofluorescent staining of 293T cells transfected by pCMV6-ENTRY SQSTM1 ([RC203214]) using anti-SQSTM1 antibody ([UM500012]/green, upper left; DAPI/blue, lower left; MERGED, upper right). 293T cells transfected with empty vector served as a negative control (MERGED, lower right) (1:100).



HEK293T cells transfected with either [RC203214] overexpress plasmid (Red), compared to an IgG isotype control, (Green) or empty vector control plasmid (Blue) were immunostained by anti-SQSTM1 antibody ([UM500012]), and then analyzed by flow cytometry (1:100).



Flow cytometric Analysis of living Hela cells, using anti-SQSTM1 antibody ([UM500012]), (Red), compared to an IgG isotype control, (green), and negative control (PBS), (Blue) (1:100).



Flow cytometric Analysis of living A549 cells, using anti-SQSTM1 antibody ([UM500012]), (Red), compared to an IgG isotype control, (green), and negative control (PBS), (Blue) (1:100).