

## Product Datasheet

### SQSTM1 Antibody (orb1240011)

<b>Catalog Number</b>	orb1240011
<b>Category</b>	Antibodies
<b>Description</b>	SQSTM1 Antibody
<b>Target</b>	SQSTM1
<b>Clonality</b>	Polyclonal
<b>Species/Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Conjugation</b>	Unconjugated
<b>Reactivity</b>	Human, Mouse, Rat
<b>Form/Appearance</b>	Liquid
<b>Concentration</b>	1 mg/mL
<b>Buffer/Preservatives</b>	SQSTM1 Antibody is supplied in PBS containing 0.02% sodium azide.
<b>Purification</b>	SQSTM1 Antibody is affinity chromatography purified via peptide column.
<b>Immunogen</b>	SQSTM1 antibody was raised against a 13 amino acid synthetic peptide from near the carboxy terminus of human SQSTM1. The immunogen is located within the last 50 amino acids of SQSTM1.
<b>UniProt ID</b>	<b>Q13501</b>
<b>MW</b>	Predicted: 48kD Observed: 65 kD
<b>Tested applications</b>	ELISA, IF, IHC-P, WB

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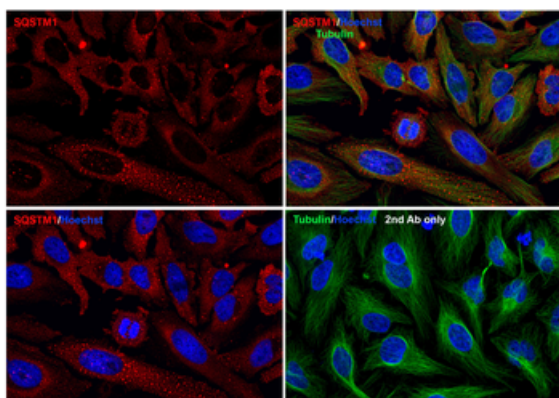
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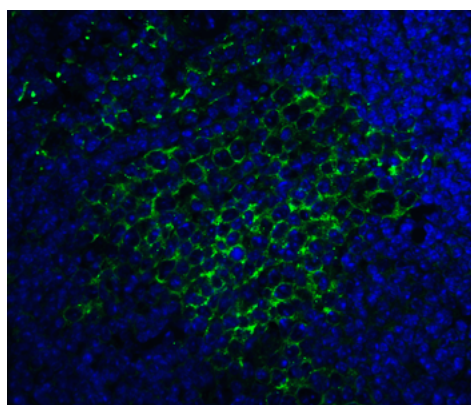
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<b>Application notes</b>	WB: 0.5-2 µg/mL; IF: 20 µg/mL; IHC: 2-5 µg/mL;.Antibody validated: Western Blot in human and mouse samples; Immunofluorescence and Immunohistochemistry in human, mouse and rat samples. All other applications and species not yet tested.
<b>Antibody Type</b>	Primary Antibody
<b>Modifications</b>	None
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Note</b>	For research use only
<b>NCBI</b>	<b>Q13501</b>
<b>Expiration Date</b>	12 months from date of receipt.



Immunofluorescence Validation of SQSTM1 In HeLa Cells. Immunofluorescent analysis of PFA-fixed HeLa cells labeling SQSTM1 with orb1240011 at 20 µg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/1000 dilution (red) and Hoechst staining (blue). Alpha tubulin was stained with anti-alpha tubulin antibody following by goat anti-mouse IgG secondary antibody (green). Images were captured with confocal microscopy.



Immunofluorescence Validation of SQSTM1 in Mouse Spleen Tissue. Immunofluorescent analysis of 4% paraformaldehyde-fixed Mouse Spleen Tissue labeling SQSTM1 with orb1240011 at 20 µg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).

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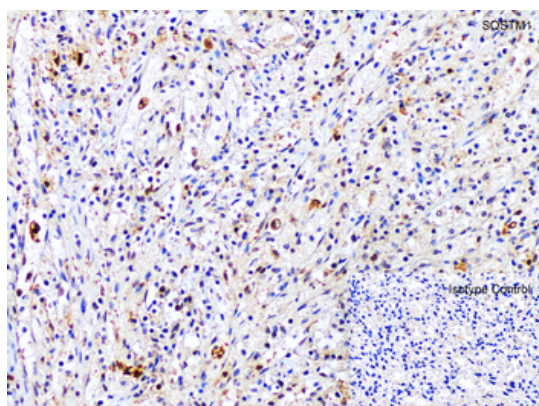
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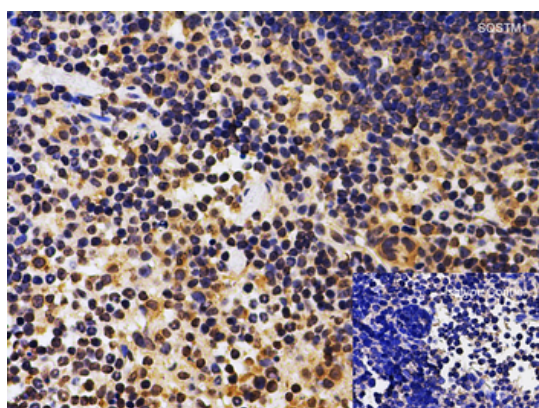
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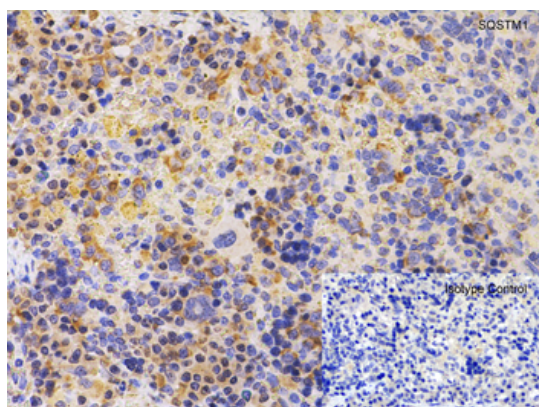
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Immunohistochemistry Validation of SQSTM1 in Human Spleen Tissue. Immunohistochemical analysis of paraffin-emb edded Human Spleen Tissue using anti-SQSTM1 antibody (orb1240011) at 2 µg/mL. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



Immunohistochemistry Validation of SQSTM1 in Mouse Spleen Tissue. Immunohistochemical analysis of paraffin-embedded Mouse Spleen Tissue using anti-SQSTM1 antibody (orb1240011) at 2 µg/mL. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



Immunohistochemistry Validation of SQSTM1 in Rat Spleen Tissue. Immunohistochemical analysis of paraffin-embedded Rat Spleen Tissue using anti-SQSTM1 antibody (orb1240011) at 2 µg/mL. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.

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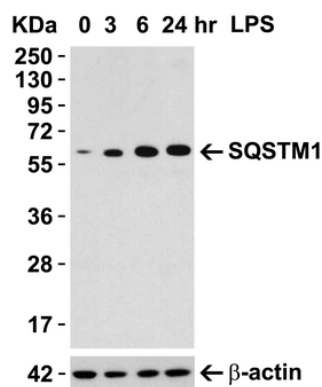
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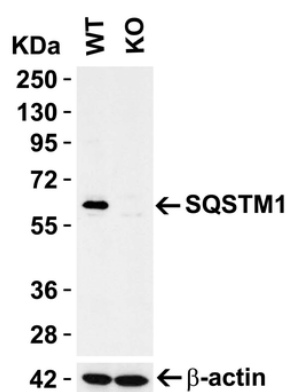
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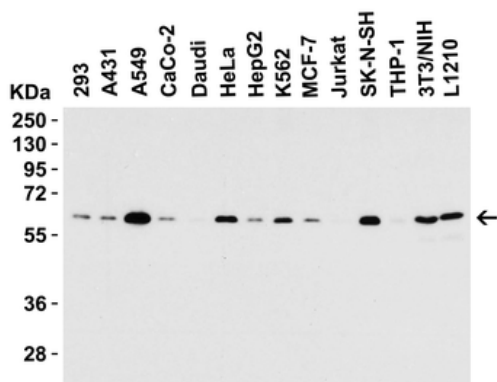
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Induced Expression Validation in Mouse Macrophage Cells. Loading: 15  $\mu$ g of lysates per lane. Antibodies: SQSTM1 orb1240011 (0.5  $\mu$ g/mL), 1h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Raw 264.7 cells were treated with LPS (0.3  $\mu$ g/mL) for different time period (0-24 hrs). There was an increase in SQSTM1 protein expression overtime after LPS treatment.



KO Validation in HEK293T Cells. Loading: 10  $\mu$ g of HEK293T WT cell lysates or SQSTM1 KO cell lysates. Antibodies: SQSTM1 orb1240011 (1  $\mu$ g/mL) and beta-actin orb1240312 (1  $\mu$ g/mL), 1 h incubation at RT in 5% NFDN/TBST. Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot Validation in Cell Lines. Loading: 15  $\mu$ g of lysates per lane. Antibodies: SQSTM1 orb1240011 (0.5  $\mu$ g/mL), 1 h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

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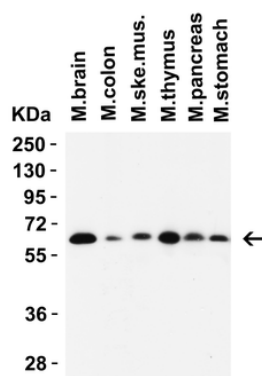
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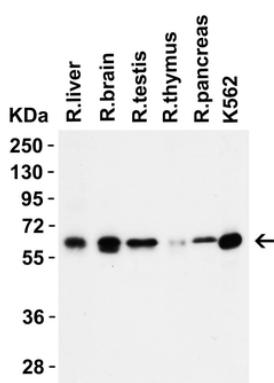
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Western Blot Validation in Mouse Tissues. Loading: 15  $\mu$ g of lysates per lane. Antibodies: SQSTM1 orb1240011 (1  $\mu$ g/mL), 1h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot Validation in Rat Tissues. Loading: 15  $\mu$ g of lysates per lane. Antibodies: SQSTM1 orb1240011 (1  $\mu$ g/mL), 1h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

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