

Anti-SQSTM1 / p62 (phospho S349) antibody [EPR20451] ab211324

KO 評価済 リコンビナント RabMAb

★★★★★ 3 Abreviews 16 References 画像数 8

製品の概要

製品名	Anti-SQSTM1 / p62 (phospho S349) antibody [EPR20451]
製品の詳細	Rabbit monoclonal [EPR20451] to SQSTM1 / p62 (phospho S349)
由来種	Rabbit
アプリケーション	適用あり: Flow Cyt (Intra), ICC/IF, IP, WB
種交差性	交差種: Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: U-2 OS, HeLa, C6 and NIH/3T3 whole cell lysates treated with 2ÅµM MG-132 (ab141003) for 18 hours. ICC/IF: HeLa cells treated with 2ÅµM MG-132 (ab141003) for 18 hours. Flow Cyt (intra): HeLa cells treated with 2ÅµM MG-132 (ab141003) for 18 hours. IP: HeLa treated with 2ÅµM MG-132 (ab141003) for 18h whole cell lysate.
特記事項	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
バッファー	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: PBS, 40% Glycerol, 0.05% BSA</p>
精製度	Protein A purified

ポリ/モノ	モノクローナル
クローン名	EPR20451
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、**次のテスト済みアプリケーションにおけるab211324の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご確認ください。

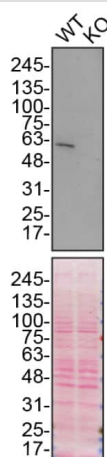
アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		1/500.
ICC/IF	★★★★★ (1)	1/100.
IP		1/30.
WB	★★★★★ (2)	1/1000. Detects a band of approximately 62 kDa (predicted molecular weight: 47 kDa).

ターゲット情報

機能	Adapter protein which binds ubiquitin and may regulate the activation of NFκB1 by TNF-α, 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 (By similarity). May be involved in cell differentiation, apoptosis, immune response and regulation of K(+) channels.
組織特異性	Ubiquitously expressed.
関連疾患	Defects in SQSTM1 are a cause of Paget disease of bone (PDB) [MIM:602080]. PDB is a metabolic bone disease affecting the axial skeleton and characterized by focal areas of increased and disorganized bone turn-over due to activated osteoclasts. Manifestations of the disease include bone pain, deformity, pathological fractures, deafness, neurological complications and increased risk of osteosarcoma. PDB is a chronic disease affecting 2 to 3% of the population above the age of 40 years.
配列類似性	Contains 1 OPR domain. Contains 1 UBA domain. Contains 1 ZZ-type zinc finger.
ドメイン	The UBA domain binds specifically 'Lys-63'-linked polyubiquitin chains of polyubiquitinated substrates. Mediates the interaction with TRIM55. The OPR domain mediates homooligomerization and interactions with PRKCZ, PRKCI, MAP2K5 and NBR1. The ZZ-type zinc finger mediates the interaction with RIPK1.
翻訳後修飾	Phosphorylated. May be phosphorylated by PRKCZ (By similarity). Phosphorylated in vitro by TTN.
細胞内局在	Cytoplasm. Late endosome. Nucleus. Sarcomere (By similarity). In cardiac muscles localizes to the sarcomeric band (By similarity). Localizes to late endosomes. May also localize to the nucleus. Accumulates in neurofibrillary tangles and in Lewy bodies of neurons from individuals

with Alzheimer and Parkinson disease respectively. Enriched in Rosenthal fibers of pilocytic astrocytoma. In liver cells, accumulates in Mallory bodies associated with alcoholic hepatitis, Wilson disease, indian childhood cirrhosis and in hyaline bodies associated with hepatocellular carcinoma.

画像



Western blot - Anti-SQSTM1 / p62 (phospho S349)
antibody [EPR20451] (ab211324)

All lanes : Anti-SQSTM1 / p62 (phospho S349) antibody
[EPR20451] (ab211324) at 1/1000 dilution

Lane 1 : Wild-type U-2 OS cell lysate

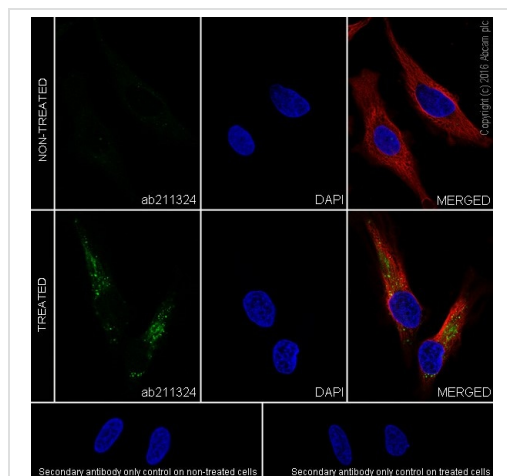
Lane 2 : SQSTM1 knockout U-2 OS cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 47 kDa

ab211324 was shown to react with SQSTM1 in wild-type U-2 OS cells in Western blot with loss of signal observed in a SQSTM1 knockout cell line. Wild-type U-2 OS and SQSTM1 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 5% milk in TBST for 1 hr before incubation with ab211324 overnight at 4 °C at a 1/1000 dilution. Blots were incubated with goat anti-rabbit HRP secondary antibodies at 0.2ug/mL before imaging. These data were provided by YCharOS Inc., an open science company with the mission of characterizing commercially available antibody reagents for all human proteins. Abcam and YCharOS are working together to help address the reproducibility crisis by enabling the life science community to better evaluate commercially available antibodies.



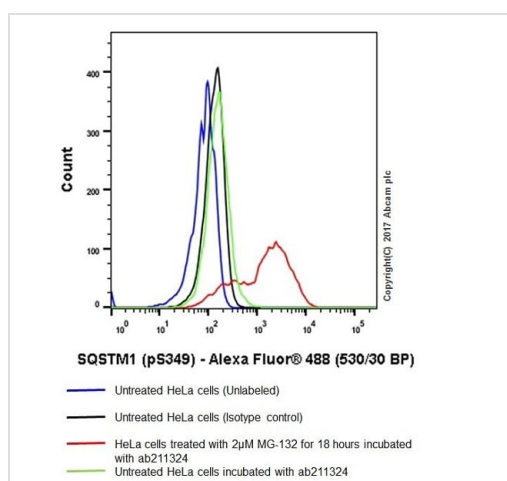
Immunocytochemistry/ Immunofluorescence - Anti-SQSTM1 / p62 (phospho S349) antibody [EPR20451] (ab211324)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (Human epithelial cell line from cervix adenocarcinoma) cells, treated with 2μM MG-132 (**ab141003**) for 18 hours or untreated, labeling SQSTM1 / p62 (phospho S349) with ab211324 at 1/100 dilution, followed by Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (**ab195889**) secondary antibody at 1/200 dilution (green). Confocal image showing cytoplasmic staining on HeLa cell line. The expression increased after treatment with 2μM MG-132 (**ab141003**) for 18 hours.

The nuclear counterstain is DAPI (blue).

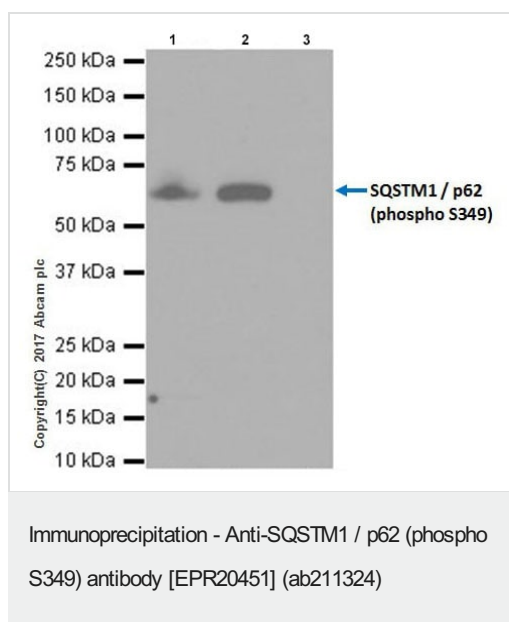
Tubulin is detected with **ab195889** (Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594)) at 1/200 dilution (red).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-SQSTM1 / p62 (phospho S349) antibody [EPR20451] (ab211324)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed HeLa (Human epithelial cell line from cervix adenocarcinoma) cells, treated with 2μM MG-132 (**ab141003**) for 18 hours (red) or untreated (green), labeling SQSTM1 / p62 (phospho S349) with ab211324 at 1/500 dilution compared with a rabbit monoclonal IgG isotype control (**ab172730**; black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody; blue). Goat anti rabbit IgG (Alexa Fluor® 488) at 1/2000 dilution was used as the secondary antibody.



SQSTM1 / p62 (phospho S349) was immunoprecipitated from 0.35 mg of HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate treated with 2 μ M MG-132 ([ab141003](#)) for 18h with ab211324 at 1/30 dilution.

Western blot was performed from the immunoprecipitate using ab211324 at 1/1000 dilution.

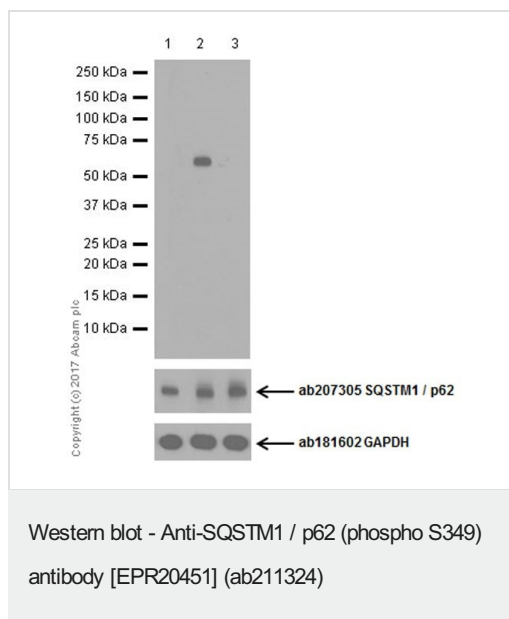
VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/10,000 dilution.

Lane 1: HeLa treated with 2 μ M MG-132 ([ab141003](#)) for 18h whole cell lysate, 10 μ g (Input).

Lane 2: ab211324 IP in HeLa treated with 2 μ M MG-132 ([ab141003](#)) for 18h whole cell lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab211324 in HeLa treated with 2 μ M MG-132 ([ab141003](#)) for 18h whole cell lysate.

Blocking and dilution buffer: 5% NFDm/TBST.



All lanes : Anti-SQSTM1 / p62 (phospho S349) antibody [EPR20451] (ab211324) at 1/1000 dilution

Lane 1 : Untreated HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lane 2 : HeLa whole cell lysate treated with 2 μ M MG-132 ([ab141003](#)) for 18 hours

Lane 3 : HeLa whole cell lysate treated with 2 μ M MG-132 ([ab141003](#)) for 18 hours, then treated with Alkaline Phosphatase for 1 hour

Lysates/proteins at 10 μ g per lane.

Secondary

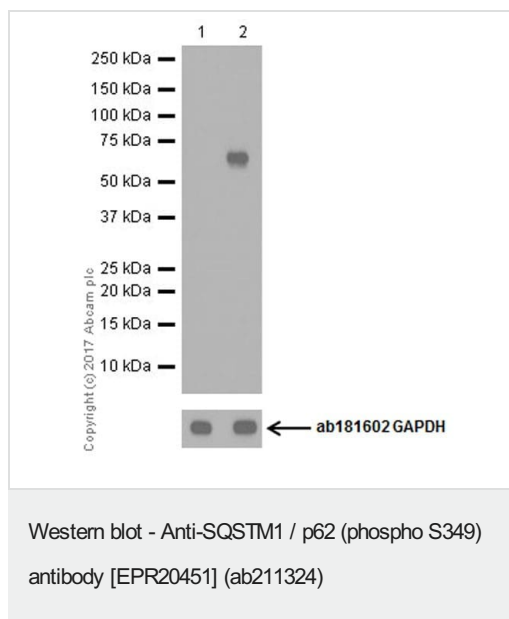
All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Predicted band size: 47 kDa

Observed band size: 62 kDa

Exposure time: 1 minute

Blocking/dilution buffer: 5% NFDm/TBST.



All lanes : Anti-SQSTM1 / p62 (phospho S349) antibody [EPR20451] (ab211324) at 1/1000 dilution

Lane 1 : Untreated C6 (Rat glial tumor cell line) whole cell lysate

Lane 2 : C6 whole cell lysate treated with 2 μ M MG-132 ([ab141003](#)) for 18 hours

Lysates/proteins at 10 μ g per lane.

Secondary

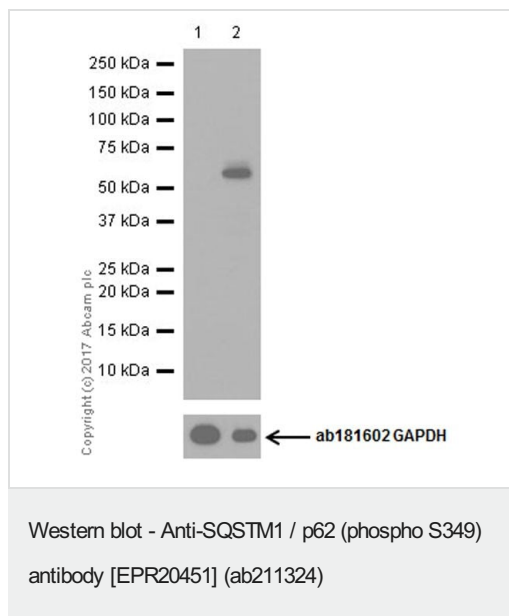
All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Predicted band size: 47 kDa

Observed band size: 62 kDa

Exposure time: 1 minute

Blocking/Dilution buffer: 5% NFDM/TBST.



All lanes : Anti-SQSTM1 / p62 (phospho S349) antibody [EPR20451] (ab211324) at 1/1000 dilution

Lane 1 : Untreated NIH/3T3 (Mouse embryonic fibroblast cell line) whole cell lysate

Lane 2 : NIH/3T3 whole cell lysate treated with 2 μ M MG-132 ([ab141003](#)) for 18 hours

Lysates/proteins at 10 μ g per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Predicted band size: 47 kDa

Observed band size: 62 kDa

Exposure time: 4 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-SQSTM1 / p62 (phospho S349) antibody
[EPR20451] (ab211324)

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