bs-55207R **[Primary Antibody]**

SQSTM1/p62 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 8878 **SWISS:** Q13501

Target: SQSTM1/p62

Immunogen: Recombinant human SQSTM1/p62: 1-440.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Store at -20°C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4°C.

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, Mar 2009]

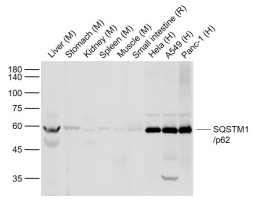
Applications: **WB** (1:500-2000)
IHC-P (1:50-100)
IHC-F (1:50-100)
IF (1:50-100)
Flow-Cyt (1:50-100)
ICC/IF (1:50-200)

Reactivity: Human, Mouse, Rat

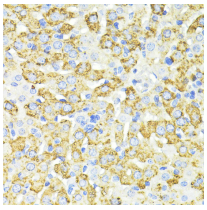
Predicted MW.: 38/47 kDa

Subcellular Location: Cytoplasm ,Nucleus

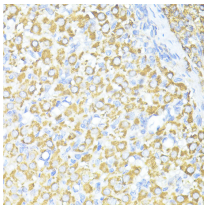
VALIDATION IMAGES



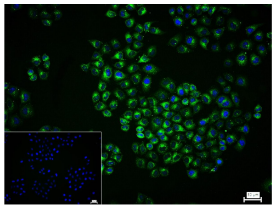
Sample: Lane 1: Liver (Mouse) Lysate at 40 ug Lane 2: Stomach (Mouse) Lysate at 40 ug Lane 3: Kidney (Mouse) Lysate at 40 ug Lane 4: Spleen (Mouse) Lysate at 40 ug Lane 5: Muscle (Mouse) Lysate at 40 ug Lane 6: Small intestine (Rat) Lysate at 40 ug Lane 7: Hela (Human) Cell Lysate at 30 ug Lane 8: A549 (Human) Cell Lysate at 30 ug Lane 9: Panc-1 (Human) Cell Lysate at 30 ug Primary: Anti-SQSTM1/p62 (bs-55207R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 62 kD Observed band size: 60 kD



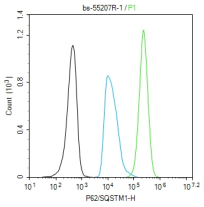
Paraformaldehyde-fixed, paraffin embedded (Mouse liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SQSTM1) Polyclonal Antibody, Unconjugated (bs-55207R) at 1:100 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat ovary); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SQSTM1) Polyclonal Antibody, Unconjugated (bs-55207R) at 1:100 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



4% Paraformaldehyde-fixed Hela (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (P62/SQSTM1) polyclonal Antibody, unconjugated (bs-55207R) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green, bs-60295G-FITC) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.



The Hela (H) cells were fixed with 4% PFA (10 min at r.t.) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C,the cells then were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.).Primary Antibody (green):Rabbit Anti-P62/SQSTM1 antibody (bs-55207R,1:100); Secondary Antibody (white blue): Goat anti-Rabbit IgG-BF488 (bs-60295G-BF488): 1 µg/test. Blank control (black): PBS. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=18]** Zetao Wang. et al. Nano-vibration exciter: Hypoxia-inducible factor 1 signaling pathway-mediated extracellular vesicles as bioactive glass substitutes for bone regeneration. BIOACT MATER. 2024 Oct;40:460 WB ;Mouse. 10.1016/j.bioactmat.2024.06.023
- **[IF=14.5]** Huijuan Zhang. et al. In situ autophagy regulation in synergy with phototherapy for breast cancer treatment. ACTA PHARM SIN B. 2023 Nov;: WB ;Mouse. 10.1016/j.apsb.2023.11.019
- **[IF=14.3]** Yangfei Zhao. et al.α-Lipoic Acid Ameliorates Arsenic-Induced Lipid Disorders by Promoting Peroxisomal β-Oxidation and Reducing Lipophagy in Chicken Hepatocyte..Advanced Science.2025 Jan 30:e2413255. Western blot ;Chicken. 39887668
- **[IF=10.6]** Xu Jinhao. et al. Adipose-derived stem cell exosomes attenuates myofibroblast transformation via inhibiting autophagy through TGF-β/Smad2 axis in oral submucosal fibrosis. J NANOBIOTECHNOL. 2024 Dec;22(1):1-17 IHC ;Human. 39702233
- **[IF=7.419]** Wei-Wei Zhou. et al. Gentianella acuta improves TAC-induced cardiac remodelling by regulating the Notch and PI3K/Akt/FOXO1/3 pathways. BIOMED PHARMACOTHER. 2022 Oct;154:113564 WB ;Rat. 35988427