

bsm-52251R

[Primary Antibody]

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VDAC1 Recombinant Rabbit mAb, Mitochondrial Loading Control

— DATASHEET —

Host: Rabbit

Clonality: Recombinant

GeneID: 7416

Target: VDAC1

Immunogen: A synthesized peptide derived from human VDAC1: 1-66.

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: Voltage dependent anion selective channel protein 1 (VDAC/Porin) belongs to the eukaryotic mitochondrial porin family and forms a channel through the mitochondrial outer membrane and also the plasma membrane. The channel allows diffusion of small hydrophilic molecules; it adopts an open conformation at low or zero membrane potential and a closed conformation at potentials above 30-40 mV. The open state has a weak anion selectivity whereas the closed state is cation selective. VDAC/Porin expression is observed in the heart, liver and skeletal muscle.

Isotype: IgG

CloneNo.: 9A7

Applications: WB (1:500-5000)

IHC-P (1:100-500)

IHC-F (1:100-500)

IF (1:100-500)

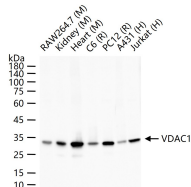
ICC/IF (1:50-200)

Reactivity: Human, Mouse, Rat

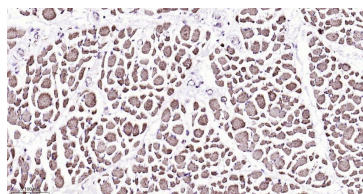
Predicted MW.: 32 kDa

Subcellular Location: Cell membrane ,Cytoplasm

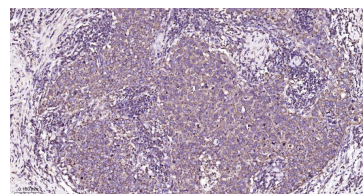
— VALIDATION IMAGES —



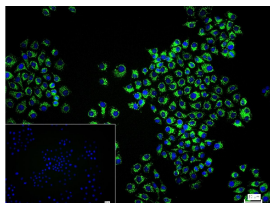
25 ug total protein per lane of various lysates (see on figure) probed with VDAC1 monoclonal antibody, unconjugated (bsm-52251R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Human Skeletal muscle; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with VDAC1 Monoclonal Antibody, Unconjugated(bsm-52251R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Breast Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with VDAC1 Monoclonal Antibody, Unconjugated(bsm-52251R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



4% Paraformaldehyde-fixed HepG2 (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (VDAC1) monoclonal Antibody, unconjugated (bsm-52251R) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green, bs-40295G-FITC) at 37°C for

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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.

— SELECTED CITATIONS —

- **[IF=4.213]** Yang Jiao. et al. Lysine demethylation KDM5B downregulates SIRT3-mediated mitochondrial glucose and lipid metabolism in diabetic neuropathy. DIABETIC MED. 2022 Sep;;e14964 WB ;Mouse. 36130801
- **[IF=2.9]** Songfeng Chen. et al. Upregulation of mitochondrial PGK1 by ROS-TBC1D15 pathway promotes neuronal death after oxygen-glucose deprivation/reoxygenation injury. BRAIN RES. 2024 Feb;1825:148724 WB ;Mouse. 38110073
- **[IF=1.7]** Jinhua Wang. et al. Iridirubin induces apoptosis in ovarian cancer cells via the mitochondrial pathway. AMERICAN JOURNAL OF TRANSLATIONAL RESEARCH. 2024 Oct 15;16(10):6119-6129. Western blot ;Human. 39544767