
VDAC Rabbit pAb

Catalog Number: bs-1461R

Target Protein: VDAC

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500)

Reactivity: Human, Rat (predicted: Mouse, Rabbit, Pig, Sheep, Cow, Dog, Horse)

Predicted MW: 32 kDa

Entrez Gene: 7416

Source: KLH conjugated synthetic peptide derived from human VDAC: 85-190/283.

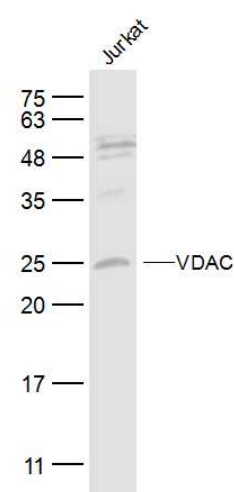
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

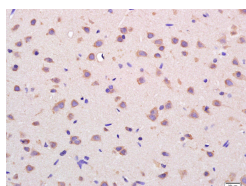
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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.

VALIDATION IMAGES



Sample: Jurkat(Human) Cell Lysate at 30 ug Primary: Anti-VDAC (bs-1461R) at 1/500 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 32 kD Observed band size: 25 kD



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-VDAC Polyclonal Antibody, Unconjugated(bs-1461R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

PRODUCT SPECIFIC PUBLICATIONS

[IF=7.69] Manczak, Maria, and P. Hemachandra Reddy. "Abnormal interaction of VDAC1 with amyloid beta and phosphorylated tau causes mitochondrial dysfunction in Alzheimer's disease." *Human molecular genetics* 21.23 (2012): 5131-5146. WB,IP ; ="Human, Mouse" . 22926141

[IF=6.575] Qiyu Gan. et al. Prognostic Value and Immune Infiltration of HPV-Related Genes in the Immune Microenvironment of Cervical Squamous Cell Carcinoma and Endocervical Adenocarcinoma. *CANCERS*. 2023 Jan;15(5):1419 IHC ; Human . 36900213

[IF=5.19] Peng Junjun. et al. Mitochondria-associated endoplasmic reticulum membranes participate mitochondrial dysfunction and endoplasmic reticulum stress caused by copper in duck kidney. *ENVIRON SCI POLLUT R*. 2023 May;;1-12 WB ; Duck . 37253910

[IF=2.73] Wang, Zhaoqi, et al. "Penahyclidine hydrochloride prevents anoxia/reoxygenation injury and induces H9c2 cardiomyocyte apoptosis via a mitochondrial pathway." *European Journal of Pharmacology* (2017). WB ; ="Rat" . 28089921

[IF=2.08] Xing, Wen Min, et al. "Proteomic identification of mitochondrial targets involved in andrographolide sodium bisulfite-induced nephrotoxicity in a rat model." *Environmental Toxicology and Pharmacology* (2015). WB ; ="Rat" . 26356389