bs-1461R **[Primary Antibody]**

VDAC Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 7416

Target: VDAC

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

Purification: affinity purified by Protein A

Concentration: 1mg/ml

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.

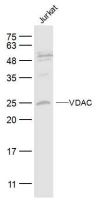
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

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

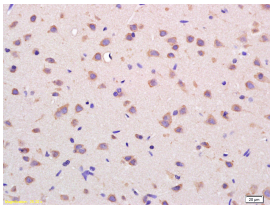
Predicted MW.: 32 kDa

Subcellular Location: Cell membrane ,Cytoplasm

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

SELECTED CITATIONS

- **[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. "Penehyclidine 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