

VDAC1 (ANT0014R) Rabbit mAb

CatalogNo: ANT8136 **Recombinant** 

Formulation: PBS,50%glycerol,0.05%Proclin 300,0.05%BSA
Quantity : 100 ug/vial

Host Species

- Rabbit
- Human,Mouse,Rat,

Reactivity

- WB,IHC,IF,IP,ELISA

Applications

MW

- 31kD (Calculated)
 - IgG,Kappa
- 33kD (Observed)

Isotype

Recommended Dilution Ratios

IHC 1:200-1:1000

WB 1:1000-1:5000

IF 1:200-1:1000

ELISA 1:5000-1:20000

IP 1:50-1:200,

Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)

Basic Information

Clonality Monoclonal

Clone Number ANT0014R

Target Information

Immunogen Information Specificity

Endogenous

Gene name VDAC1
Protein Name Voltage-dependent anion-selective channel protein 1

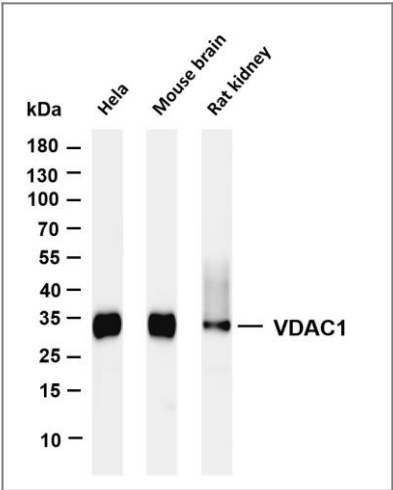
Organism	Gene ID	UniProt ID
Human	7416;	P21796;
Mouse	22333;	Q60932;
Rat	83529;	Q9Z2L0;

Cellular Localization Cytoplasm, Membrane

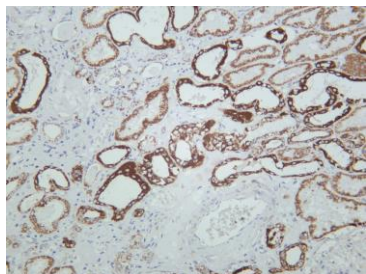
Tissue specificity Expressed in erythrocytes (at protein level) (PubMed:27641616). Expressed in heart, liver and skeletal muscle (PubMed:8420959).

Function Domain:Consists mainly of a membrane-spanning beta-barrel formed by 19 beta-strands. The helical N-terminus folds back into the pore opening and plays a role in voltage-gated channel activity.,Function:Forms a channel through the mitochondrial outer membrane and also the plasma membrane. The channel at the outer mitochondrial membrane allows diffusion of small hydrophilic molecules; in the plasma membrane it is involved in cell volume regulation and apoptosis. 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. May participate in the formation of the permeability transition pore complex (ANTPC) responsible for the release of mitochondrial products that triggers apoptosis.,similarity:Belongs to the eukaryotic mitochondrial porin family.,subunit:Interacts with hexokinases (By similarity). Interacts with BCL2L1. Interacts with influenza A virus PB1-F2 protein.,tissue specificity:Heart, liver and skeletal muscle.,

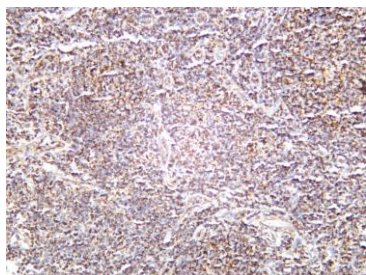
Validation Data



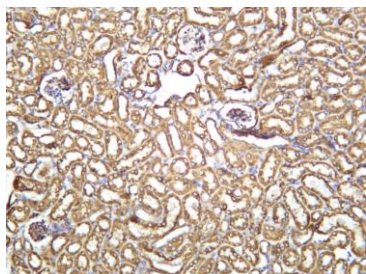
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-VDAC1 (ANT0014R) antibody. The HRPconjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HeLa Lane 2: Mouse brain Lane 3: Rat kidney Predicted band size: 31kDa Observed band size: 33kDa



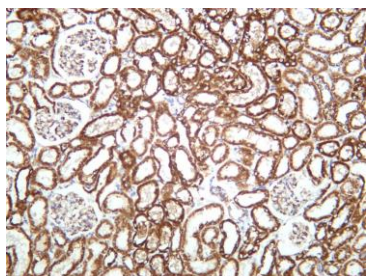
Human kidney was stained with anti-VDAC1 (ANT0014R) rabbit antibody



Human tonsil was stained with anti-VDAC1 (ANT0014R) rabbit antibody



Mouse kidney was stained with anti-VDAC1 (ANT0014R) rabbit antibody



Rat kidney was stained with anti-VDAC1 (ANT0014R) rabbit antibody

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