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**[ Primary Antibody ]**

# Rabbit Anti-VDAC antibody

**Catalog Number: SL23683R**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

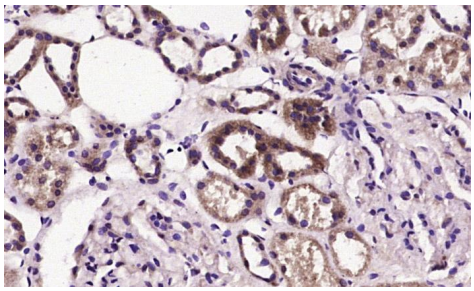
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|---|---|
| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Target:** | VDAC |
| **Immunogen:** | KLH conjugated synthetic peptide derived from human VDAC: 221-307/307 |
| **Purification:** | affinity purified by Protein A |
| **Concentration:** | 1mg/ml |
| **Storage:** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. |
| **Applications:** | IHC-P=1:100-500<br>IHC-F=1:100-500<br>IF=1:100-500 （Paraffin sections need antigen repair）<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Reactivity:** | Human,Mouse(predicted:Rat,Chicken,Cow,Horse,Rabbit,Sheep) |
| **Predicted MW.:** | 32kDa |
| **Subcellular Location:** | cytoplasmic The cell membrane Mitochondrion |
| **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.<br>**Function:** Involved in the endosomal multivesicular bodies (MVB) pathway. MVBs contain intraluminal vesicles (ILVs) that are generated by invagination and scission from the limiting membrane of the endosome and mostly are delivered to lysosomes enabling degradation of membrane proteins, such as stimulated growth factor receptors, lysosomal enzymes and lipids. Thought to |

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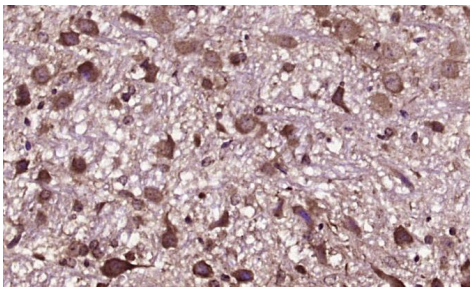
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| | be a cofactor of VPS4A/B, which catalyzes disassembles membrane-associated ESCRT-III assemblies. Involved in the sorting and down-regulation of EGFR (By similarity). Involved in HIV-1 budding.<br>**Subunit:** Interacts with VPS4B. Interacts with CHMP1B. Interacts with CHMP2A; the interaction probably involves the open conformation of (polymerized) CHMP2A. May interact with CHMP3. Interacts with CHMP5; the interaction involves soluble CHMP5. Interacts with IST1.<br>**Subcellular Location:** Cytoplasm. Endosome membrane; Peripheral membrane protein (Probable).<br>**Similarity:** Belongs to the VTA1 family.<br>**Database links:**<br>**Entrez Gene:** 416320 Chicken<br>**Entrez Gene:** 282119 Cow<br>**Entrez Gene:** 7416 Human<br>**Entrez Gene:** 22333 Mouse<br>**Entrez Gene:** 397010 Pig<br>**Entrez Gene:** 83529 Rat<br>**Entrez Gene:** 334582 Zebrafish<br>Omim: 604492 Human |

## [ VALIDATION IMAGES ]



Paraformaldehyde-fixed, paraffin embedded (Human kidney tissue); 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 (VDAC) Polyclonal Antibody, Unconjugated (SL23683R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse cerebellar tissue); 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 (VDAC) Polyclonal Antibody, Unconjugated (SL23683R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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