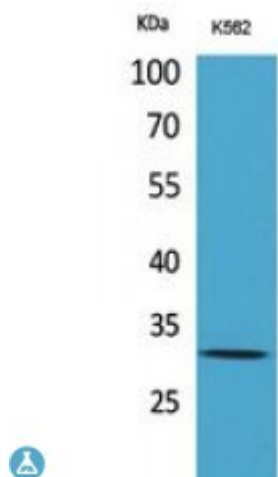


## Anti-VDAC1 antibody



|                           |   |
|---------------------------|---|
| <b>Description</b>        | Rabbit polyclonal to VDAC1.   |
| <b>Model</b>              | STJ96755  |
| <b>Host</b>               | Rabbit  |
| <b>Reactivity</b>         | Human, Mouse, Rat   |
| <b>Applications</b>       | ELISA, WB   |
| <b>Immunogen</b>          | Synthesized peptide derived from human VDAC1.   |
| <b>Immunogen Region</b>   | 1-50 aa, N-terminal   |
| <b>Gene ID</b>            | <a href="#">7416</a>  |
| <b>Gene Symbol</b>        | <a href="#">VDAC1</a>   |
| <b>Dilution range</b>     | WB 1:500-1:2000ELISA 1:20000  |
| <b>Specificity</b>        | VDAC1 Polyclonal Antibody detects endogenous levels of VDAC1 protein.   |
| <b>Tissue Specificity</b> | Heart, liver and skeletal muscle.   |
| <b>Purification</b>       | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.   |
| <b>Note</b>               | For Research Use Only (RUO).  |
| <b>Protein Name</b>       | Voltage-dependent anion-selective channel protein 1 VDAC-1 hVDAC1<br>Outer mitochondrial membrane protein porin 1 Plasmalemmal porin Porin<br>31HL Porin 31HM |
| <b>Molecular Weight</b>   | 31 kDa  |
| <b>Clonality</b>          | Polyclonal  |

|   |  |
|---|--|
| <b>Conjugation</b>                      | Unconjugated   |
| <b>Isotype</b>                          | IgG  |
| <b>Formulation</b>                      | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  |
| <b>Concentration</b>                    | 1 mg/ml  |
| <b>Storage Instruction</b>              | Store at -20°C, and avoid repeat freeze-thaw cycles.   |
| <b>Database Links</b>                   | <a href="#">HGNC:12669OMIM:604492</a>  |
| <b>Alternative Names</b>                | Voltage-dependent anion-selective channel protein 1 VDAC-1 hVDAC1<br>Outer mitochondrial membrane protein porin 1 Plasmalemmal porin Porin<br>31HL Porin 31HM  |
| <b>Function</b>                         | 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 (PTPC) responsible for the release of mitochondrial products that triggers apoptosis . |
| <b>Sequence and Domain Family</b>       | 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.  |
| <b>Cellular Localization</b>            | Mitochondrion outer membrane Cell membrane Membrane raft   |
| <b>Post-translational Modifications</b> | Phosphorylation at Ser-193 by NEK1 promotes the open conformational state preventing excessive mitochondrial membrane permeability and subsequent apoptotic cell death after injury. Phosphorylation by the AKT-GSK3B axis stabilizes the protein probably by preventing ubiquitin-mediated proteasomal degradation. Ubiquitinated by PRKN during mitophagy, leading to its degradation and enhancement of mitophagy. Deubiquitinated by USP30.  |