

## Anti-VDAC1 Rabbit pAb



WL02790

For Research Use Only. Not For Use In Diagnostic Procedures

## Product Information

<b>Product name</b>	Anti-VDAC1 Rabbit pAb		
<b>Source</b>	Rabbit		
<b>Species reactivity</b>	Human, Mouse, Rat		
<b>Tested applications</b>	Western blot	1:1000-1:2000	
	Immunohistochemistry	1:100-1:400	
	Immunofluorescence	1:100-1:400	
<b>Cellular localization</b>	Mitochondrion outer membrane. Cell membrane.		
<b>Pack size</b>	50/100/200/500/1000μl		
<b>Storage</b>	Store at -20°C. <b>Avoid freeze/thaw cycles.</b>		
<b>Storage buffer</b>	Supplied in 20 mM phosphate (pH 7.5), 150 mM NaCl, 100 μg/ml		
	BSA, 50% glycerol and less than 0.02% sodium azide		

## General Information

<b>Background</b>	Voltage-dependent anion-selective channel 1 (VDAC-1) is a beta barrel protein that in humans is encoded by the VDAC1 gene located on chromosome 5. VDAC1 is involved in cell metabolism by transporting ATP and other small metabolites across the outer mitochondrial membrane (OMM) allowing regulation of the TCA cycle and, by extension, reactive oxygen species (ROS) production. VDAC1 has been shown to interact with Amyloid $\beta$ (A $\beta$ ) leading to increased conductance of the channel and eventually apoptosis of the cell. VDAC1 acts as a scaffold for many proteins as well as allows for the flux of ions and metabolites through interactions within the pore.
<b>Immunogen</b>	Polyclonal antibody is produced by immunizing animals with a synthetic peptide of VDAC1.
<b>Purification</b>	Polyclonal antibody was purified by Protein A affinity chromatography.

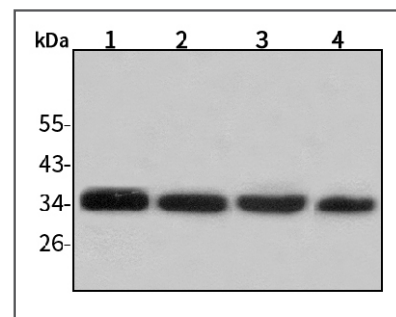
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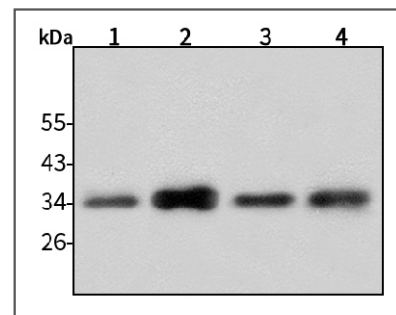
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## Product Images



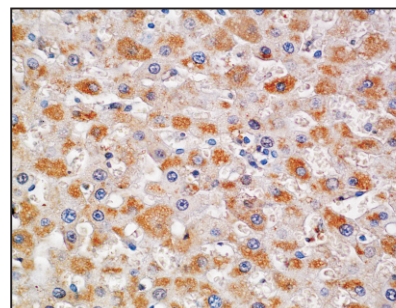
## Western blot-Anti-VDAC1 pAb

Lane 1: Human HepG2 cell lysate 30μg  
 Lane 2: Human Hela cell lysate 30μg  
 Lane 3: Human BGC-823 cell lysate 30μg  
 Lane 4: Human MGC-803 cell lysate 30μg  
 All lanes: Anti-VDAC1 at 1:1000 dilution  
 Lysates/proteins at 20-50 μg per lane.  
 Predicted band size: 31 kDa  
 Observed band size: 33 kDa



## Western blot-Anti-VDAC1 pAb

Lane 1: Mouse heart tissue lysate 30μg  
 Lane 2: Mouse brain tissue lysate 30μg  
 Lane 3: Rat lung tissue lysate 30μg  
 Lane 4: Rat stomach tissue lysate 30μg  
 All lanes: Anti-VDAC1 at 1:1000 dilution  
 Lysates/proteins at 20-50 μg per lane.  
 Predicted band size: 31 kDa  
 Observed band size: 33 kDa



## Immunohistochemistry-Anti-VDAC1 pAb

Sample: Mouse liver tissue  
 Antigen retrieval: pH 9.0 Tris-EDTA buffer  
 Primary antibody: 1:200, 4°C, overnight  
 Secondary antibody-Biotin: 1:150, 37°C, 1h  
 Streptavidin-HRP: 1:200, 37°C, 30min  
 Color Developing: DAB

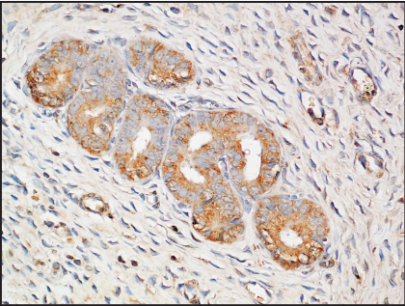
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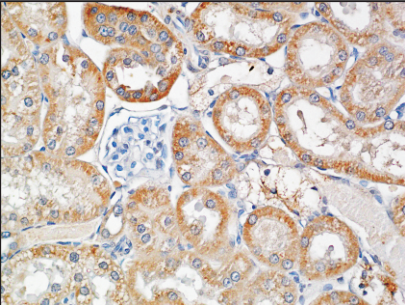
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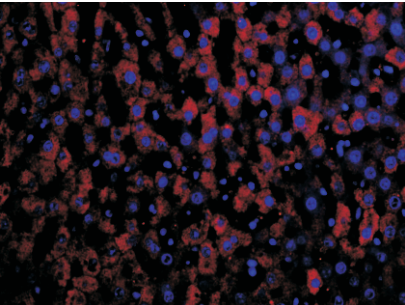
Immunohistochemistry-Anti-VDAC1 pAb

**Sample:** Rat ovary tissue  
**Antigen retrieval:** pH 9.0 Tris-EDTA buffer  
**Primary antibody:** 1:200, 4°C, overnight  
**Secondary antibody-Biotin:** 1:150, 37°C, 1h  
**Streptavidin-HRP:** 1:200, 37°C, 30min  
**Color Developing:** DAB



Immunohistochemistry-Anti-VDAC1 pAb

**Sample:** Rat kidney tissue  
**Antigen retrieval:** pH 9.0 Tris-EDTA buffer  
**Primary antibody:** 1:200, 4°C, overnight  
**Secondary antibody-Biotin:** 1:150, 37°C, 1h  
**Streptavidin-HRP:** 1:200, 37°C, 30min  
**Color Developing:** DAB



Immunofluorescence-Anti-VDAC1 pAb

**Sample:** Rat liver tissue  
**Primary antibody:** 1:200, 4°C, overnight  
**Secondary antibody-CY3:** 1:200, at room temperature, 1h

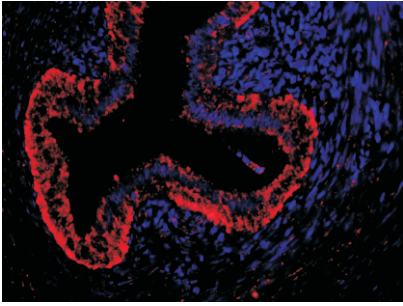
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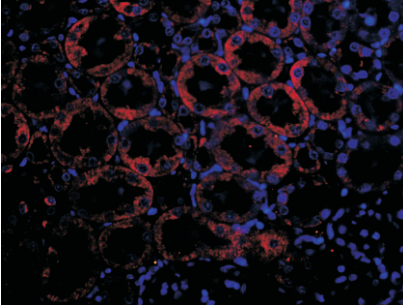
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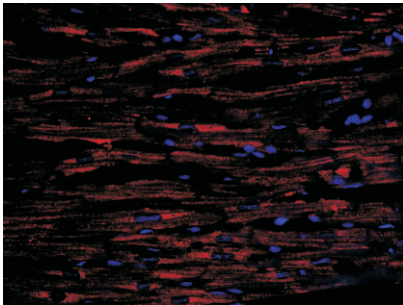
Immunofluorescence-Anti-VDAC1 pAb

**Sample:** Rat ovary tissue  
**Primary antibody:** 1:200, 4°C, overnight  
**Secondary antibody-CY3:** 1:200, at room temperature, 1h



Immunofluorescence-Anti-VDAC1 pAb

**Sample:** Rat kidney tissue  
**Primary antibody:** 1:200, 4°C, overnight  
**Secondary antibody-CY3:** 1:200, at room temperature, 1h



Immunofluorescence-Anti-VDAC1 pAb

**Sample:** Rat heart tissue  
**Primary antibody:** 1:200, 4°C, overnight  
**Secondary antibody-CY3:** 1:200, at room temperature, 1h