

**VDAC2 Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP21559a**

## Specification

---

### VDAC2 Antibody (N-term) - Product Information

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">P45880</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>polyclonal</b>
Isotype	<b>Rabbit IgG</b>

### VDAC2 Antibody (N-term) - Additional Information

**Gene ID** 7417

#### Other Names

Voltage-dependent anion-selective channel protein 2, VDAC-2, hVDAC2, Outer mitochondrial membrane protein porin 2, VDAC2

#### Target/Specificity

This VDAC2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 51-85 amino acids from the N-terminal region of human VDAC2.

#### Dilution

WB~~1:2000  
IHC-P~~1:100

#### Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

#### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

VDAC2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

### VDAC2 Antibody (N-term) - Protein Information

**Name** VDAC2

**Function** Forms a channel through the mitochondrial outer membrane that allows diffusion of small hydrophilic molecules (PubMed:[38065946](#)). The channel adopts an open conformation at low or zero membrane potential and a closed conformation at potentials above 30-40 mV (By

similarity). The open state has a weak anion selectivity whereas the closed state is cation-selective (By similarity). Binds various lipids, including the sphingolipid ceramide, the phospholipid phosphatidylcholine, and the sterols cholesterol and oxysterol (PubMed:[31015432](#)). Binding of ceramide promotes the mitochondrial outer membrane permeabilization (MOMP) apoptotic pathway (PubMed:[31015432](#)).

#### Cellular Location

Mitochondrion outer membrane. Membrane. Note=May localize to non-mitochondrial membranes.

#### Tissue Location

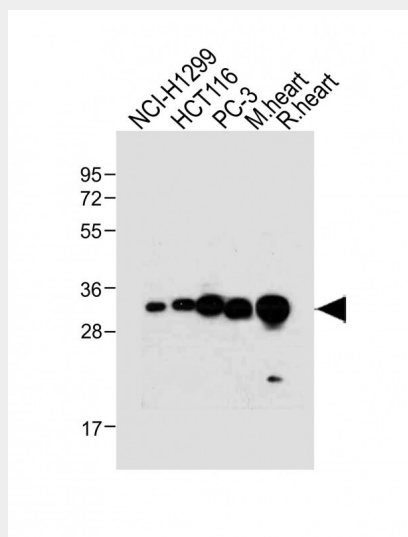
Expressed in erythrocytes (at protein level) (PubMed:27641616). Expressed in all tissues examined (PubMed:8420959)

### VDAC2 Antibody (N-term) - Protocols

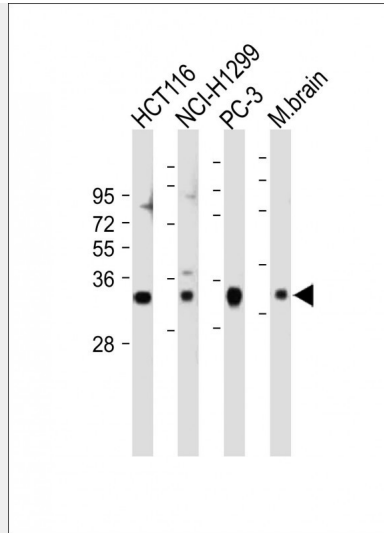
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

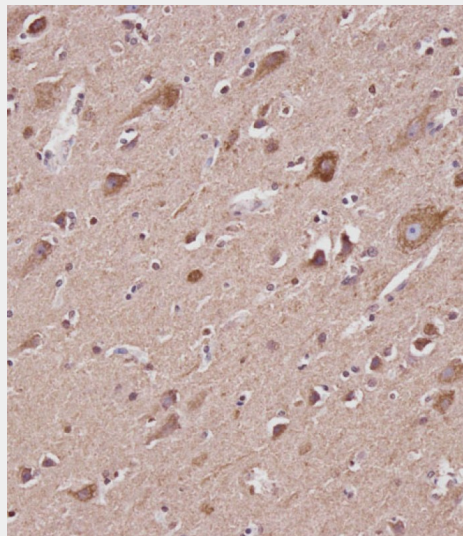
### VDAC2 Antibody (N-term) - Images



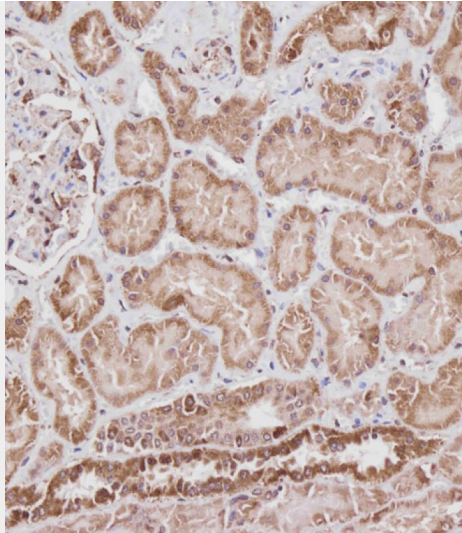
All lanes : Anti-VDAC2 Antibody (N-term) at 1:4000 dilution Lane 1: NCI-H1299 whole cell lysate Lane 2: HCT116 whole cell lysate Lane 3: PC-3 whole cell lysate Lane 4: Mouse heart tissue lysate Lane 5: Rat heart tissue lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 32 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



All lanes : Anti-VDAC2 Antibody (N-term) at 1:2000 dilution Lane 1: HCT116 whole cell lysate Lane 2: NCI-H1299 whole cell lysate Lane 3: PC-3 whole cell lysate Lane 4: Mouse brain tissue lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 32 kDa Blocking/Dilution buffer: 5% NFDN/TBST.



Immunohistochemical analysis of AP21559a on paraffin-embedded Human brain tissue. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:100) for 1 hour at room temperature. Undiluted CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



Immunohistochemical analysis of AP21559a on paraffin-embedded Human kidney tissue. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:100) for 1 hour at room temperature. Undiluted CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.

#### **VDAC2 Antibody (N-term) - Background**

Forms a channel through the mitochondrial outer membrane that allows diffusion of small hydrophilic molecules. The channel 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.

#### **VDAC2 Antibody (N-term) - References**

Ha H.,et al.J. Biol. Chem. 268:12143-12149(1993).  
Blachly-Dyson E.,et al.J. Biol. Chem. 268:1835-1841(1993).  
Decker W.K.,et al.Mamm. Genome 10:1041-1042(1999).  
Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.  
Deloukas P.,et al.Nature 429:375-381(2004).