

#### VDAC1 Recombinant Rabbit mAb, Mitochondrial Loading Control

VDAC1 Recombinant Rabbit mAb, Mitochondrial Loading Control Catalog # AP93983

#### **Specification**

### VDAC1 Recombinant Rabbit mAb, Mitochondrial Loading Control - Product Information

Application WB, IHC-P, IHC-F, IF

Reactivity
Host
Clonality
Human
Rabbit
Recombinant

Calculated MW 32 KDa
Physical State Liquid

Immunogen A synthesized peptide derived from human

VDAC1 1-66

Epitope Specificity 1-66
Isotype IgG

**Purity** affinity purified by Protein A

**SIMILARITY** 

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Cytoplasm. Endosome membrane;

Peripheral membrane protein (Probable).

Belongs to the VTA1 family.

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.

Important Note This product as supplied is intended for

research use only, not for use in human, therapeutic or diagnostic applications.

## **Background Descriptions**

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.

#### VDAC1 Recombinant Rabbit mAb, Mitochondrial Loading Control - Additional Information

# **Dilution**

<span class ="dilution\_WB">WB $\sim$ 1:1000/span><br \><span class</pre>

="dilution\_IHC-P">IHC-P $\sim$ N/A</span><br\><span class

="dilution\_IHC-F">IHC-F~~N/A</span><br/>span class ="dilution\_IF">IF~~1:50~200</span>



### **Storage**

Store at -20  $^{\circ}$ C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4  $^{\circ}$ C.

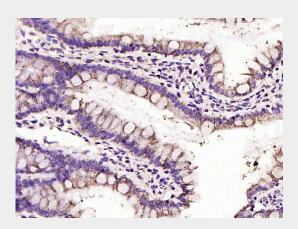
### VDAC1 Recombinant Rabbit mAb, Mitochondrial Loading Control - Protein Information

#### VDAC1 Recombinant Rabbit mAb, Mitochondrial Loading Control - Protocols

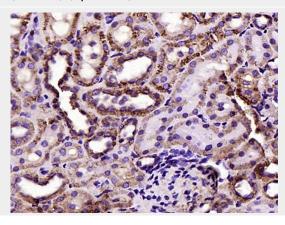
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

#### VDAC1 Recombinant Rabbit mAb, Mitochondrial Loading Control - Images

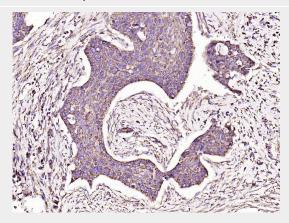


Paraformaldehyde-fixed, paraffin embedded (rat small intestine); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (VDAC1) Monoclonal Antibody, Unconjugated (AP93983) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

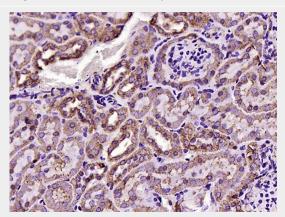




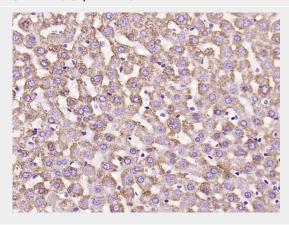
Paraformaldehyde-fixed, paraffin embedded (rat kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (VDAC1) Monoclonal Antibody, Unconjugated (AP93983) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human esophageal cancer); 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 (VDAC1) Monoclonal Antibody, Unconjugated (AP93983) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

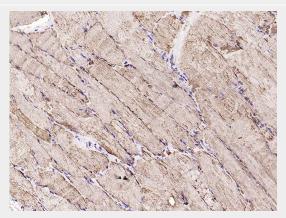


Paraformaldehyde-fixed, paraffin embedded (mouse kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (VDAC1) Monoclonal Antibody, Unconjugated (AP93983) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

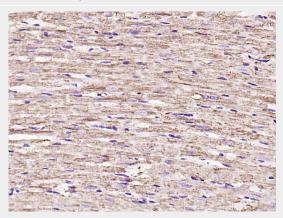




Paraformaldehyde-fixed, paraffin embedded (rat liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (VDAC1) Monoclonal Antibody, Unconjugated (AP93983) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat skeletal muscle); 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 (VDAC1) Monoclonal Antibody, Unconjugated (AP93983) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat heart); 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 (VDAC1) Monoclonal Antibody, Unconjugated (AP93983) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

# VDAC1 Recombinant Rabbit mAb, Mitochondrial Loading Control - Background

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