

## Anti-VDAC1/Porin Rabbit Monoclonal Antibody

Catalog Number: M01168

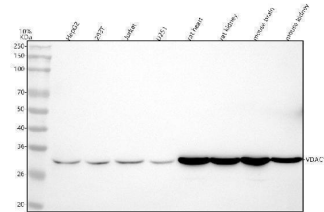
### Overview

Product Name	Anti-VDAC1/Porin Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-VDAC1/Porin Rabbit Monoclonal Antibody catalog # M01168. Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human, Mouse, Rat.
Application	IF, IHC, ICC, WB
Clonality	Monoclonal DBA-22
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P21796

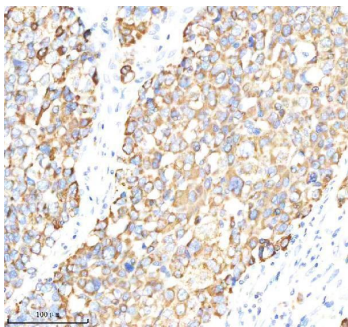
### Technical Details

Immunogen	A synthesized peptide derived from human VDAC1
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5mg/ml
Purification	Affinity-chromatography
Suggested Dilutions	WB 1:500-2000 IHC 1:50-200 ICC/IF 1:50-200

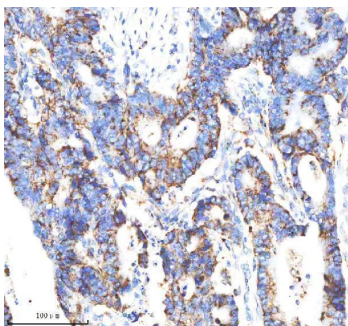
## Anti-VDAC1/Porin Rabbit Monoclonal Antibody (M01168) Images



Western blot analysis of VDAC1/Porin using anti-VDAC1/Porin antibody (M01168). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human 293T whole cell lysates, Lane 3: human Jurkat whole cell lysates, Lane 4: human U251 whole cell lysates, Lane 5: rat heart tissue lysates, Lane 6: rat kidney tissue lysates, Lane 7: mouse brain tissue lysates, Lane 8: mouse kidney tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-VDAC1/Porin antigen affinity purified monoclonal antibody (Catalog # M01168) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:500 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for VDAC1/Porin at approximately 31 kDa. The expected band size for VDAC1/Porin is at 31 kDa.

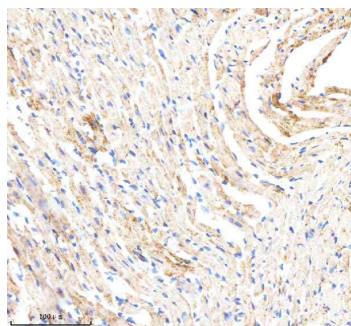


IHC analysis of VDAC1/Porin using anti-VDAC1/Porin antibody (M01168). VDAC1/Porin was detected in a paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-VDAC1/Porin Antibody (M01168) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

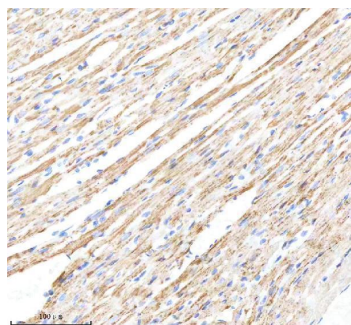


IHC analysis of VDAC1/Porin using anti-VDAC1/Porin antibody (M01168). VDAC1/Porin was detected in a paraffin-embedded section of human stomach cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-VDAC1/Porin Antibody (M01168) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

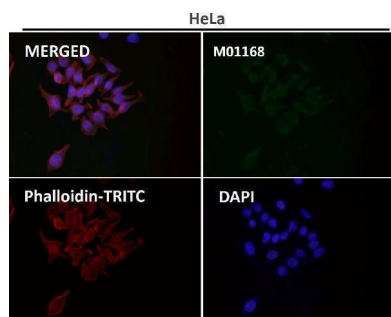
IHC analysis of VDAC1/Porin using anti-VDAC1/Porin antibody



(M01168). VDAC1/Porin was detected in a paraffin-embedded section of mouse heart tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-VDAC1/Porin Antibody (M01168) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of VDAC1/Porin using anti-VDAC1/Porin antibody (M01168). VDAC1/Porin was detected in a paraffin-embedded section of rat heart tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-VDAC1/Porin Antibody (M01168) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



Immunofluorescent analysis using the Antibody at 1:50 dilution.

## 2 Publications Citing This Product

1. PubMed ID: 30085007, Song H, Telugu BP, Thompson LP. Sexual dimorphism of mitochondrial function in the hypoxic guinea pig placenta. *Biol Reprod*. 2019 Jan 1;100(1):208-216. doi:10.1093/biolre/iyoy167. PMID:30085007; PMCID:PMC6335207.
2. PubMed ID: 33129969, Wu L, Guo X, Wong SY, Lu P, Hartson SD, Medeiros DM, Wang W, Clarke SL, Lucas EA, Smith BJ, Chohanadisai W, Lin D. Deficiency of beta-carotene oxygenase 2 induces mitochondrial fragmentation and activates the STING-IRF3 pathway in the mouse hypothalamus. *J Nutr Biochem*

Visit [bosterbio.com/anti-vdac1-rabbit-monoclonal-antibody-m01168-boster.html](https://bosterbio.com/anti-vdac1-rabbit-monoclonal-antibody-m01168-boster.html) to see all 2 publications.

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