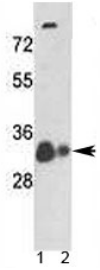
VDAC Antibody (F49742)

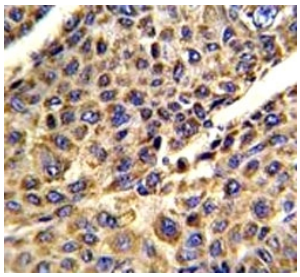
Catalog No.	Formulation	Size
F49742-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F49742-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

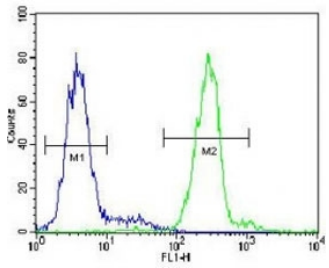
Availability	1-3 business days
Species Reactivity	Human, Mouse
Predicted Reactivity	Bovine, Pig, Rabbit, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P21796
Applications	Western Blot : 1:1000 IHC (Paraffin) : 1:50-1:100 Flow Cytometry : 1:10-1:50
Limitations	This VDAC antibody is available for research use only.



Western blot analysis of VDAC antibody and 1) human A375 cell line and 2) mouse heart tissue lysate. Predicted molecular weight 30~35 kDa.



IHC analysis of FFPE human hepatocarcinoma stained with VDAC antibody



VDAC antibody flow cytometric analysis of HepG2 cells (green) compared to a negative control (blue). FITC-conjugated goat-anti-rabbit secondary Ab was used for the analysis.

Description

VDAC1 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. The protein may participate in the formation of the permeability transition pore complex (PTPC) responsible for the release of mitochondrial products that triggers apoptosis.

Application Notes

Titration of the VDAC antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 1-30 from human VDAC1 was used as the immunogen for this VDAC antibody.

Storage

Aliquot the VDAC antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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