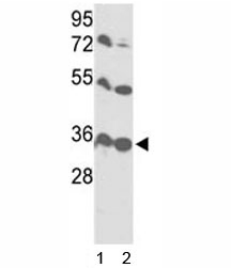
VDAC1 Antibody (F49743)

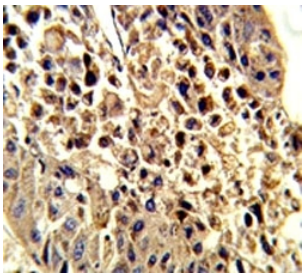
Catalog No.	Formulation	Size
F49743-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F49743-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

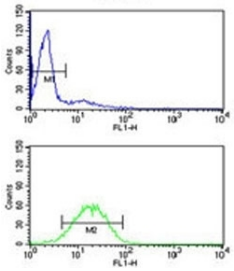
Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Mouse, Rat, Bovine, Rabbit
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	P21796
Applications	Western Blot : 1:1000 IHC (Paraffin) : 1:50-1:100 Flow Cytometry : 1:10-1:50
Limitations	This VDAC1 antibody is available for research use only.



Western blot analysis of VDAC1 antibody and 1) HL-60 and 2) Y79 lysate.



IHC analysis of FFPE human hepatocarcinoma stained with VDAC1 antibody



VDAC1 antibody flow cytometry analysis of HL-60 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 VDAC1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 95-124 from the human protein was used as the immunogen for this VDAC1 antibody.

Storage

Aliquot the VDAC1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.