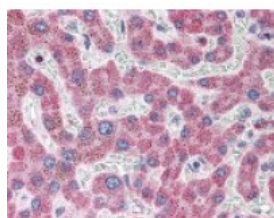




VDAC1 Antibody

CATALOG NUMBER: 49-499



Immunohistochemistry staining of VDAC1
in liver tissue using VDAC1 Antibody.

Specifications

SPECIES REACTIVITY:	Human
TESTED APPLICATIONS:	ELISA, IHC, WB
APPLICATIONS:	VDAC1 antibody can be used in ELISA, Western Blot, immunohistochemistry starting at 1:500, immunofluorescence, and immunoprecipitation.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
IMMUNOGEN:	VDAC1 antibody was raised against amino acids 40 - 51 of VDAC1 (Human).
HOST SPECIES:	Rabbit

Properties

PURIFICATION:	Immunoaffinity Chromatography
PHYSICAL STATE:	Liquid
BUFFER:	0.02 M potassium phosphate, 0.15 M sodium chloride, pH 7.2, 0.01% sodium azide.
STORAGE CONDITIONS:	Store VDAC1 antibody at 4 °C or -20 °C. As with all antibodies avoid freeze/thaw cycles.
CLONALITY:	Polyclonal
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	VDAC1, HVDAC1, Plasmalemmal porin, Porin 31HM, PORIN, PORIN-31-HL, Vdac5, VDAC, Mitochondrial porin, Porin 31HL, VDAC-1
ACCESSION NO.:	P21796
PROTEIN GI NO.:	130683
OFFICIAL SYMBOL:	VDAC1
GENE ID:	7416

Background

BACKGROUND: VDAC (also known as Voltage-dependent anion-selective channel protein 1, Outer mitochondrial membrane protein porin 1, Plasmalemmal porin, Porin 31HL) is an outer membrane mitochondrial protein. The VDAC

proteins are ~30-33 kDa (some isoforms are larger - see below). The VDAC proteins are thought to form aqueous channels, or pores, through which adenine nucleotides cross the outer mito-chondrial membrane. VDACS have been implicated in the formation of the mitochondrial permeability transition pore complex in apoptotic cells. This complex, formed by VDAC, adenine nucleotide translocator (ANT), and cyclophilin D (CypD), is thought to allow the mitochondria to undergo metabolic uncoupling and irreversible morphologic changes that ultimately destroy the mitochondria during apoptosis. VDACS are highly expressed in heart, liver and skeletal muscle, where concentrations of mitochondria are at their highest. This antibody can be used as a loading control with whole cell lysates and total mitochondrial preparations.

FOR RESEARCH USE ONLY

December 13, 2016