

VDAC1

Cat#: R1307-1

Quantity: 100ul

Product Type: Rabbit polyclonal IgG, primary antibodies

Species reactivity: Human

Positive control: A431, human brain, HeLa, Raji, HepG2, SW480

Subcellular location: Mitochondrial membrane, cell membrane

Database links: SwissProt P21796 (human)

Applications: WB, IHC, ICC

Lot#: See on the tube

Form: Liquid

Molecular Wt.: ~31kDa

Description: Voltage-dependent anion-selective channel (VDAC1) (also referred to as porin, isoform 1) is a small protein, originally discovered in the outer membrane of mitochondria where it constitutes the major pore-forming protein. The porin protein VDAC1 allows to the outer-most membrane of the mitochondrion free permeability to low molecular-weight solutes. VDAC1 has been shown to co-immunoprecipitate with the anti-apoptotic protein Bcl-2 and suggested to be involved in forming the mitochondrial pore which releases cytochrome c during apoptosis.

Specificity/Source: This antibody is produced by immunizing rabbits with a synthetic peptide (KLH-coupled) corresponding to a region of human VDAC1.

Recommended Dilutions:

WB: 1:500

IHC: 1:200

ICC: 1:200

Storage Buffer: 1*TBS (pH7.4), 0.5%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Purity: Immunogen affinity purified

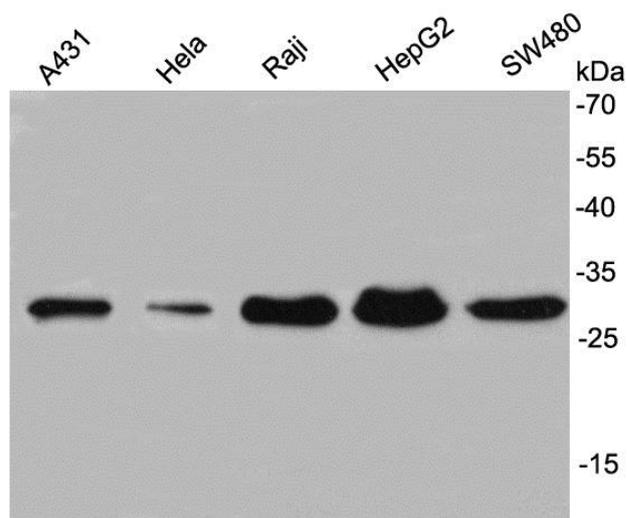


Fig1: Western blot analysis on different cell lysates using anti-VDAC1 rabbit polyclonal antibodies.

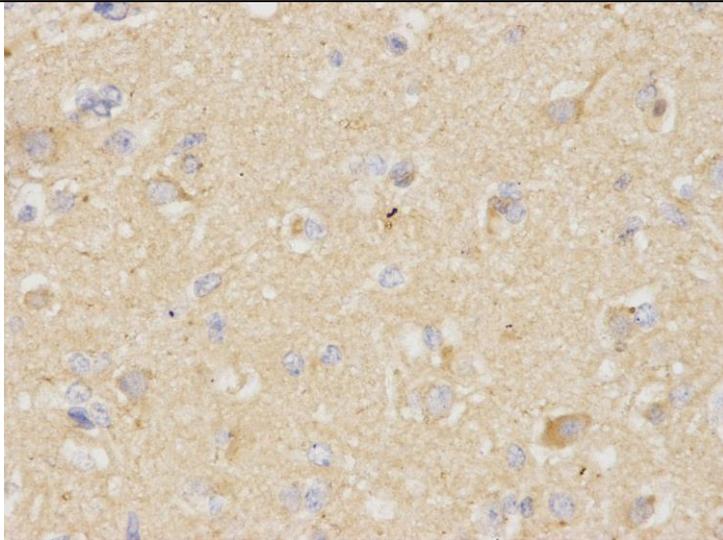


Fig2 : Immunohistochemical analysis of paraffin-embedded human brain tissue using anti-VDAC1 rabbit polyclonal antibody.

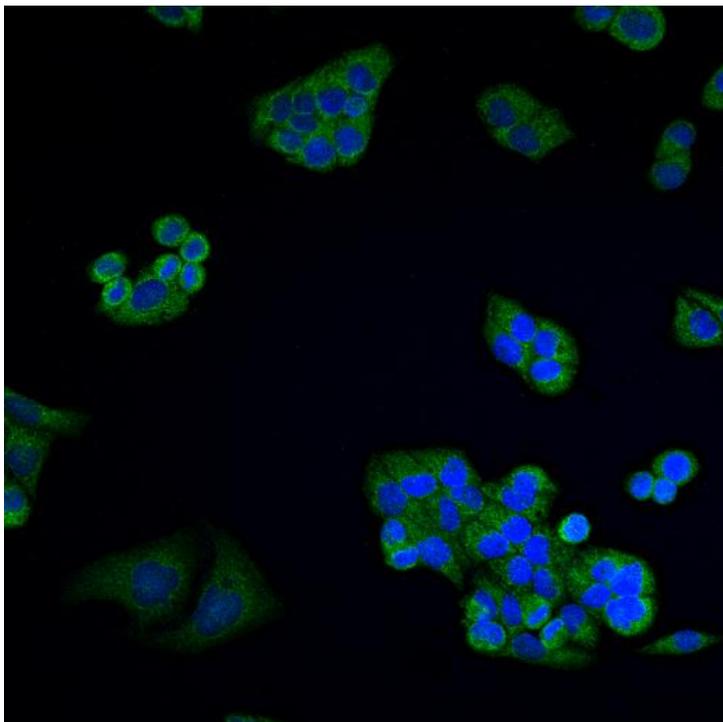


Fig3: ICC staining VDAC1 in HeLa cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS and counterstained with DAPI in order to highlight the nucleus (blue).



Fig4: Western blot analysis on zebra fish lysates using anti-VDAC1 rabbit polyclonal antibodies.

Background References:

1. "Influenza virus PB1-F2 protein induces cell death through mitochondrial ANT3 and VDAC1." Zamarin D., Garcia-Sastre A., Xiao X., Wang R., Palese P. PLoS Pathog. 1:40-54(2005)
2. "Solution structure of the integral human membrane protein VDAC-1 in detergent micelles." Hiller S., Garces R.G., Malia T.J., Orekhov V.Y., Colombini M., Wagner G. Science 321:1206-1210(2008)