Store at -200

VDAC Antibody



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Entrez-Gene Id: Applications: Reactivity: Sensitivity: MW (kDa): Source: **UniProt ID:** WB, IHC-P HMRB Endogenous 32 Rabbit #P21796 7416

Product Usage Application Dilution Information Western Blotting 1:1000 Immunohistochemistry (Paraffin) 1.75

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at -**Storage**

20°C. Do not aliquot the antibody.

VDAC Antibody detects endogenous levels of total VDAC protein. Specificity / Sensitivity

Source / Purification Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the

amino terminus of human VDAC-1. Antibodies are purified using protein A and peptide affinity

chromatography.

Voltage-dependent anion channel (VDAC), ubiquitously expressed and located in the outer mitochondrial **Background**

membrane, is generally thought to be the primary means by which metabolites diffuse in and out of the mitochondria (1). In addition, this channel plays a role in apoptotic signaling. The change in mitochondrial permeability characteristic of apoptosis is mediated by Bcl-2 family proteins, which bind to VDAC, altering the channel kinetics (2). Homodimerization of VDAC may be a mechanism for changing mitochondrial permeability and supporting release of cytochrome c (3). In mammalian cells, there are three VDAC isoforms, VDAC1, which is the most widely expressed isoform, as well as VDAC2 and VDAC3 (4,5).

Background References 1. Hodge, T. and Colombini, M. (1997) J Membr Biol 157, 271-9.

2. Shimizu, S. et al. (1999) Nature 399, 483-7.

3. Zheng, Y. et al. (2004) Oncogene 23, 1239-47.

4. Craigen, W.J. and Graham, B.H. (2008) J Bioenerg Biomembr 40, 207-12.

5. Yamamoto, T. et al. (2006) J Proteome Res 5, 3336-44.

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, Western Blot Buffer

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin) **Applications Key**

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key**

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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