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## VDAC (D73D12) Rabbit mAb (HRP Conjugate)



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	Reactivity: H M R Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 32	Source/Isotype: Rabbit IgG	UniProt ID: #P21796	Entrez-Gene Id: 7416	
Product Usage	Application			Dilution			
Information	We	estern Blotting		1:1000			
Storage		Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH $7.4$ ) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at $-20$ °C. Do not aliquot the antibodies.					
Specificity / Sensitiv	ity VDA	VDAC (D73D12) Rabbit mAb (HRP Conjugate) detects endogenous levels of total VDAC protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the amino terminus of human VDAC-1 protein.					
Product Description	pero	This Cell Signaling Technology antibody is conjugated to the carbohydrate groups of horseradish peroxidase (HRP) via its amine groups. The HRP conjugated antibody is expected to exhibit the same species cross-reactivity as the unconjugated VDAC (D73D12) Rabbit mAb #4661.					
MW (kDa)		32					
Background	mer mito perr the perr	Voltage-dependent anion channel (VDAC), ubiquitously expressed and located in the outer mitochondrial 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 Referen	nd 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).

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

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

**Applications Key** WB: Western Blotting

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

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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