

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



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## For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 32	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #P21796	<b>Entrez-Gene Id:</b> 7416
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
Storage		Supplied in 140 mM NaCl, 3 mM KCI, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium phosphate monobasic, 2 mg/mL BSA, and 50% glycerol. Store at –20°C. <i>Do not aliquot the antibody.</i>				
Specificity/Sensitivity		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.				
Description		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.				
Background		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 BcI-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 Re	ferences	<ol> <li>Hodge, T. and Colombini, M. (1997) <i>J Membr Biol</i> 157, 271-9.</li> <li>Shimizu, S. et al. (1999) <i>Nature</i> 399, 483-7.</li> <li>Zheng, Y. et al. (2004) <i>Oncogene</i> 23, 1239-47.</li> <li>Craigen, W.J. and Graham, B.H. (2008) <i>J Bioenerg Biomembr</i> 40, 207-12.</li> <li>Yamamoto, T. et al. (2006) <i>J Proteome Res</i> 5, 3336-44.</li> </ol>				

**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 W: Western Blotting

Cross-Reactivity Key H: Human M: Mouse R: Rat Mk: Monkey

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