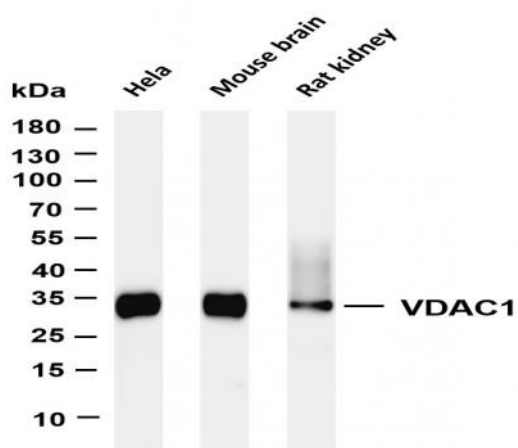


VDAC1 (PT0214R) PT® Rabbit mAb

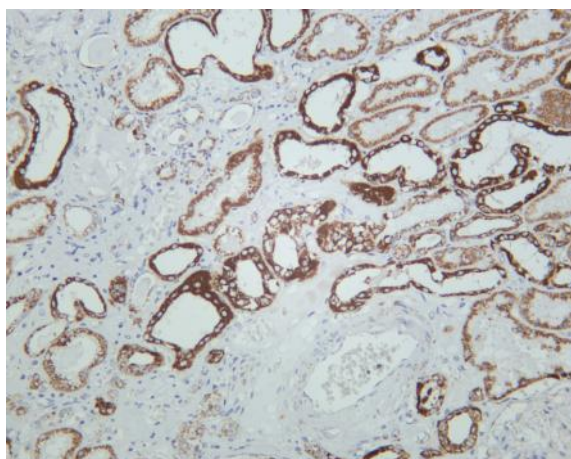
Catalog No :	YM8136
Reactivity :	Human; Mouse; Rat;
Applications :	WB;IHC;IF;IP;ELISA
Target :	VDAC1
Fields :	>>Calcium signaling pathway;>>cGMP-PKG signaling pathway;>>Necroptosis;>>Cellular senescence;>>Neutrophil extracellular trap formation;>>NOD-like receptor signaling pathway;>>Cholesterol metabolism;>>Alzheimer disease;>>Parkinson disease;>>Amyotrophic lateral sclerosis;>>Huntington disease;>>Spinocerebellar ataxia;>>Prion disease;>>Pathways of neurodegeneration - multiple diseases;>>Shigellosis;>>Influenza A;>>Human T-cell leukemia virus 1 infection;>>Chemical carcinogenesis - reactive oxygen species;>>Diabetic cardiomyopathy
Gene Name :	VDAC1
Protein Name :	Voltage-dependent anion-selective channel protein 1
Human Gene Id :	7416
Human Swiss Prot No :	P21796
Mouse Gene Id :	22333
Mouse Swiss Prot No :	Q60932
Rat Gene Id :	83529
Rat Swiss Prot No :	Q9Z2L0
Specificity :	endogenous
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
	Monoclonal, rabbit, IgG, Kappa

Dilution::	IHC 1:200-1:1000, WB 1:1000-1:5000, IF 1:200-1:1000, ELISA 1:5000-1:20000, IP 1:50-1:200,
Purification :	Protein A
Storage Stability :	-15°C to -25°C/1 year (Do not lower than -25°C)
Molecularweight :	31kD
Observed Band :	33kD
Cell Pathway :	Calcium; Parkinson's disease; Huntington's disease;
Background :	This gene encodes a voltage-dependent anion channel protein that is a major component of the outer mitochondrial membrane. The encoded protein facilitates the exchange of metabolites and ions across the outer mitochondrial membrane and may regulate mitochondrial functions. This protein also forms channels in the plasma membrane and may be involved in transmembrane electron transport. Alternate splicing results in multiple transcript variants. Multiple pseudogenes of this gene are found on chromosomes 1, 2 3, 6, 9, 12, X and Y.[provided by RefSeq, Sep 2010],
Function :	domain: Consists mainly of a membrane-spanning beta-barrel formed by 19 beta-strands. The helical N-terminus folds back into the pore opening and plays a role in voltage-gated channel activity., function: Forms a channel through the mitochondrial outer membrane and also the plasma membrane. The channel at the outer mitochondrial membrane allows diffusion of small hydrophilic molecules; in the plasma membrane it is involved in cell volume regulation and apoptosis. It adopts an open conformation at low or zero membrane potential and a closed conformation at potentials above 30-40 mV. The open state has a weak anion selectivity whereas the closed state is cation-selective. May participate in the formation of the permeability transition pore complex (PTPC) responsible for the release of mitochondrial products that triggers apoptosis., similarity: Belongs to the eukaryotic mitochondrial porin fami
Subcellular Location :	Cytoplasm, Membrane
Expression :	Expressed in erythrocytes (at protein level) (PubMed:27641616). Expressed in heart, liver and skeletal muscle (PubMed:8420959).

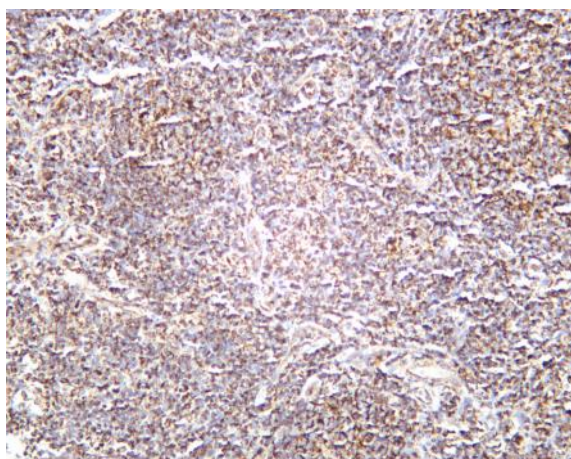
Products Images



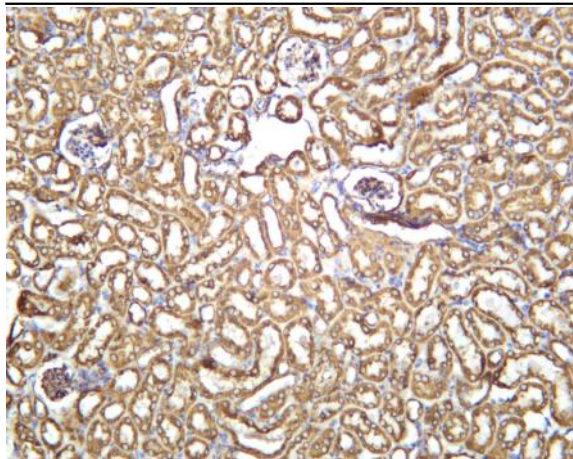
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-VDAC1 (PT0214R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HeLa Lane 2: Mouse brain Lane 3: Rat kidney Predicted band size: 31kDa Observed band size: 33kDa



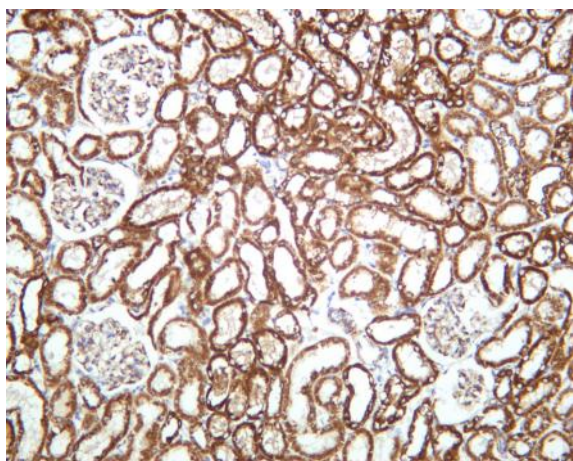
Human kidney was stained with anti-VDAC1 (PT0214R) rabbit antibody



Human tonsil was stained with anti-VDAC1 (PT0214R) rabbit antibody



Mouse kidney was stained with anti-VDAC1 (PT0214R) rabbit antibody



Rat kidney was stained with anti-VDAC1 (PT0214R) rabbit antibody