

Product datasheet for **TA385546S**

VDAC1 Rabbit Monoclonal Antibody [Clone ID: R05-7F2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	R05-7F2
Applications:	IHC, WB
Recommended Dilution:	WB: 1/2000 IHC: 1/20-1/500
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide of human VDAC1
Formulation:	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Stability:	1 year
Predicted Protein Size:	Calculated MW: 31 kDa; Observed MW: 31 kDa
Gene Name:	voltage dependent anion channel 1
Database Link:	Entrez Gene 7416 Human P21796



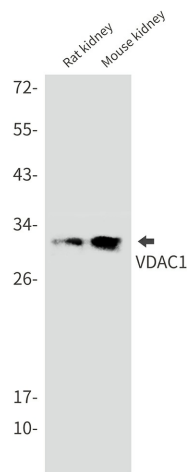
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Background:

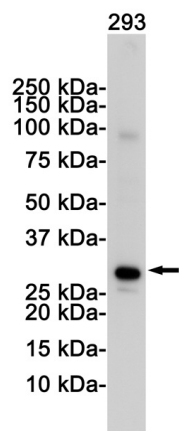
Swiss-Prot Acc.P21796. Forms a channel through the mitochondrial outer membrane and also the plasma membrane. The channel at the outer mitochondrial membrane allows diffusion of small hydrophilic molecules; in the plasma membrane it is involved in cell volume regulation and apoptosis. It adopts an open 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 (PubMed:11845315, PubMed:18755977, PubMed:20230784, PubMed:8420959). May participate in the formation of the permeability transition pore complex (PTPC) responsible for the release of mitochondrial products that triggers apoptosis (PubMed:15033708, PubMed:25296756).

Synonyms:

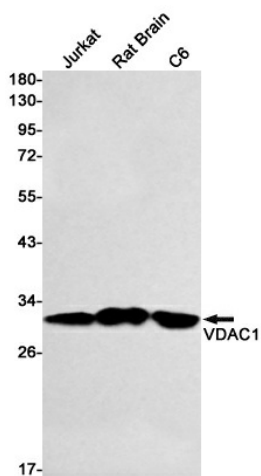
hVDAC1; MGC111064; OTTHUMP00000159381; OTTHUMP00000165946; PORIN; PORIN-31-HL; VDAC; VDAC-1

Product images:


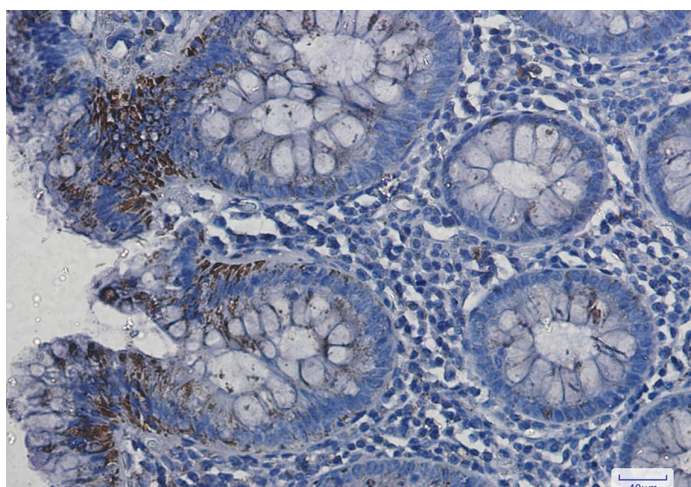
Western blot analysis of VDAC1 in rat kidney, mouse kidney lysates using VDAC1 antibody.



Western blot analysis of VDAC1 in 293 lysates using VDAC1 antibody.



Western blot analysis of VDAC1 in Jurkat, rat Brain, C6 lysates using VDAC1 antibody



Immunohistochemistry analysis of paraffin-embedded Human colon cancer using VDAC1 antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.