

VDAC2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full-length recombinant VDAC2.
Catalog # AT4508a

Product Information

Application	WB, IF, E
Primary Accession	P45880
Other Accession	BC000165
Reactivity	Human, Rat
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	3D2
Calculated MW	31567

Additional Information

Gene ID	7417
Other Names	Voltage-dependent anion-selective channel protein 2, VDAC-2, hVDAC2, Outer mitochondrial membrane protein porin 2, VDAC2
Target/Specificity	VDAC2 (AAH00165, 1 a.a. ~ 294 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	VDAC2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

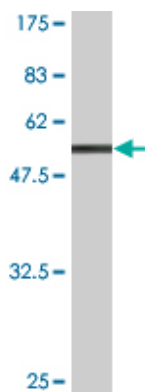
This gene encodes a member of the voltage-dependent anion channel pore-forming family of proteins that are considered the main pathway for metabolite diffusion across the mitochondrial outer membrane. The encoded protein is also thought to be involved in the mitochondrial apoptotic pathway via regulation of BCL2-antagonist/killer 1 protein activity. Pseudogenes have been identified on chromosomes 1, 2, 12 and 21, and alternative splicing results in multiple transcript variants.

References

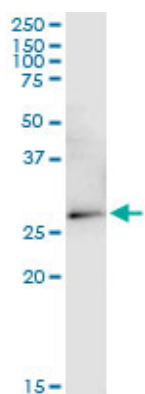
Characterization of human VDAC isoforms: A peculiar function for VDAC3? De Pinto V, et al. Biochim Biophys

Acta, 2010 Jun-Jul. PMID 20138821. Expression and localization of voltage-dependent anion channels (VDAC) in human spermatozoa. Liu B, et al. Biochem Biophys Res Commun, 2009 Jan 16. PMID 19013129. VDAC2 and aldolase A identified as membrane proteins of K562 cells with increased expression under iron deprivation. Valis K, et al. Mol Cell Biochem, 2008 Apr. PMID 18278581. The layered structure of human mitochondrial DNA nucleoids. Bogenhagen DF, et al. J Biol Chem, 2008 Feb 8. PMID 18063578. High-level expression, refolding and probing the natural fold of the human voltage-dependent anion channel isoforms I and II. Engelhardt H, et al. J Membr Biol, 2007 Apr. PMID 17828567.

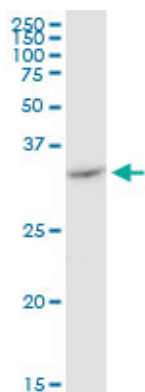
Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (57.86 KDa) .



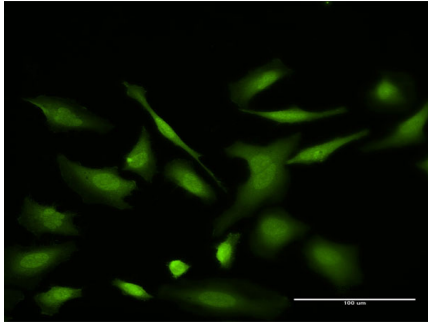
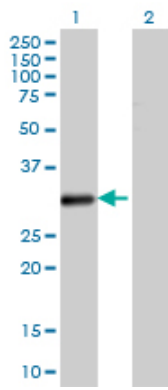
VDAC2 monoclonal antibody (M01), clone 3D2. Western Blot analysis of VDAC2 expression in rat brain.



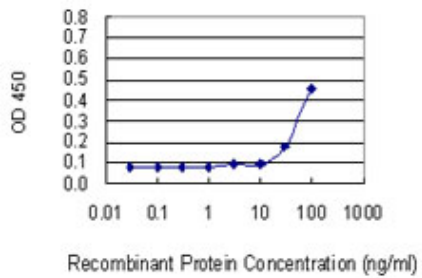
VDAC2 monoclonal antibody (M01), clone 3D2. Western Blot analysis of VDAC2 expression in K-562.

Western Blot analysis of VDAC2 expression in transfected 293T cell line by VDAC2 monoclonal antibody (M01), clone 3D2.

Lane 1: VDAC2 transfected lysate (31.6 KDa).
Lane 2: Non-transfected lysate.



Immunofluorescence of monoclonal antibody to VDAC2 on HeLa cell . [antibody concentration 10 $\mu\text{g/ml}$]



Detection limit for recombinant GST tagged VDAC2 is 10 ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.