10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

VDAC2 Antibody (monoclonal) (M01)

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

Specification

VDAC2 Antibody (monoclonal) (M01) - Product Information

Application	**IF, WB, E**
Primary Accession	P45880
Other Accession	BC000165
Reactivity	**Human, Rat**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a Kappa**
Calculated MW	**31567**

VDAC2 Antibody (monoclonal) (M01) - 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

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.

VDAC2 Antibody (monoclonal) (M01) - Protocols

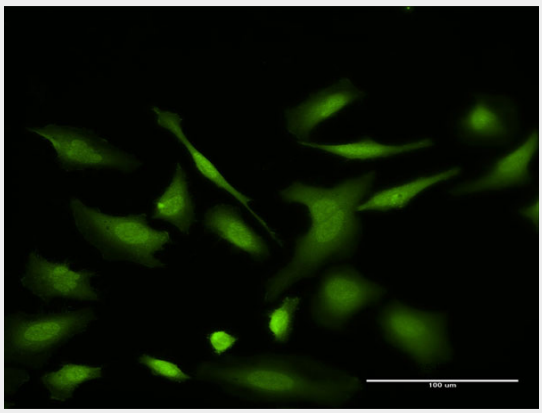
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot

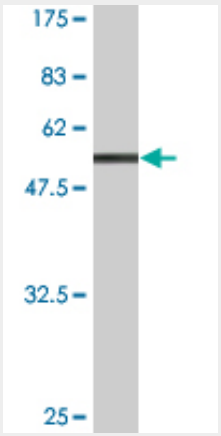
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

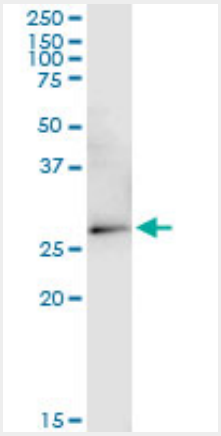
VDAC2 Antibody (monoclonal) (M01) - Images



Immunofluorescence of monoclonal antibody to VDAC2 on HeLa cell . [antibody concentration 10 ug/ml]

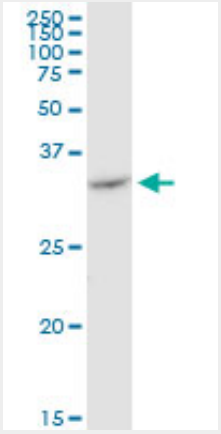


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (57.86 KDa) .

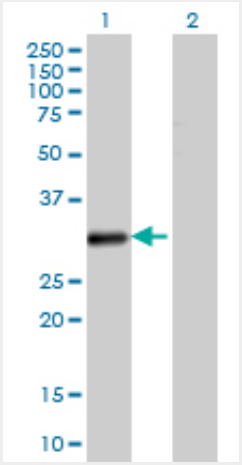


VDAC2 monoclonal antibody (M01), clone 3D2. Western Blot analysis of VDAC2 expression in rat

brain.

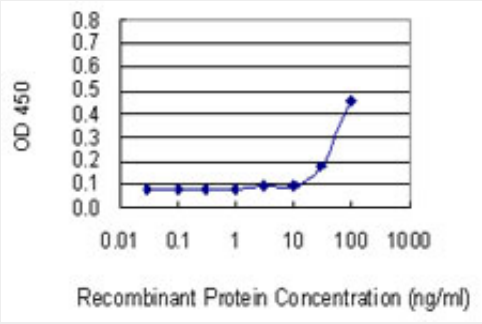


VDAC2 monoclonal antibody (M01), clone 3D2. Western Blot analysis of VDAC2 expression in K-562.



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.



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

VDAC2 Antibody (monoclonal) (M01) - 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.

VDAC2 Antibody (monoclonal) (M01) - 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.