VDAC1 Monoclonal Antibody

ORDERING INFORMATION

Catalog no.: 56564 (clone S152B-23)
Format: 100ug (1mg/ml) Protein G-purified antibody in PBS, pH 7.4, 0.1% sodium azide, 50% glycerol.

BACKGROUND

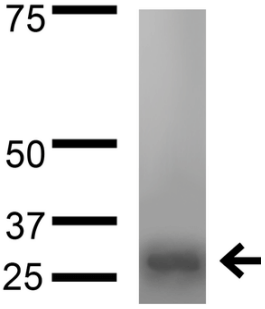
VDAC1 (also known as Voltage-dependent anion-selective channel protein 1 and outer mitochondrial membrane protein porin 1) is the outer mitochondrial membrane receptor for hexokinase and BCL2L1. VDAC1 forms a channel through the mitochondrial membrane and is involved in small molecule diffusion, cell volume regulation, and apoptosis. VDAC1 may participate in the formation of the permeability transition pore complex (PTPC) which is responsible for the release of mitochondrial products that trigger apoptosis.

SPECIFICATION SUMMARY

Antigen: Fusion protein corresponding to aa 1-283 (full-length) of human VDAC1. This sequence is 98% identical to mouse, 98% identical to rat, and >60% identical to VDAC2 and VCAC3.
Accession nos.: NP_003365.1, P21796
Gene ID: 7416
Host Species: Mouse
Antibody Class: IgG2a
Specificity: This antibody recognizes human, mouse and rat VDAC1. It does not cross-react with VDAC2 or VDAC3 (based on evaluation in knock-out mice).

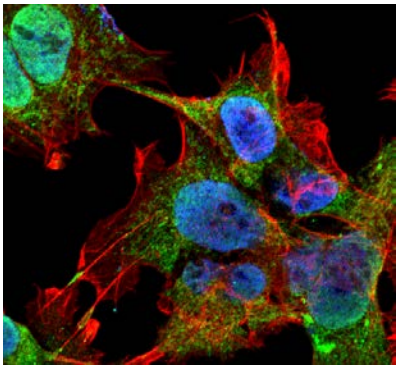
APPLICATIONS

Immunoblotting: use at 1-5ug/ml. A band of ~30kDa is detected.



Detection of VDAC1 in rat brain lysates with #56564 at 5ug/ml.

Immunofluorescence: use at 10ug/ml



Detection of VDAC1 in neuroblastoma cell line SK-N-BE with #56564 at 10ug/ml: DAPI (blue) nuclear stain, Texas Red F actin stain, ATTO 488 (green) VDAC1 stain.

These are recommended concentrations. Endusers should determine optimal concentrations for their application.

DILUTION INSTRUCTIONS

Dilute in PBS or medium that is identical to that used in the assay system.

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STORAGE AND STABILITY
This product is stable for at least one (1) year at -20°C.

For in vitro investigational use only. Not intended for therapeutic or diagnostic procedures.

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