

CoraLite® Plus 750-conjugated VDAC1/Porin Monoclonal antibody

Catalog Number: CL750-66345

Basic Information

Catalog Number:

CL750-66345

Size:

1000 ug/ml

Source:

Mouse

Isotype:

IgG3

GenBank Accession Number:

NM_003374

GeneID (NCBI):

7416

UNIPROT ID:

P21796

Full Name:

voltage-dependent anion channel 1

Calculated MW:

31 kDa

Observed MW:

35-37 kDa

Purification Method:

Protein A purification

CloneNo.:

1E2C7

Recommended Dilutions:

WB 1:1000-1:4000

**Excitation/Emission maxima
wavelengths:**

755 nm / 780 nm

Applications

Tested Applications:

WB

Species Specificity:

human, mouse, rat

Positive Controls:

WB : HeLa cells, Jurkat cells, HEK-293 cells

Background Information

VDAC1, also named as VDAC, porin 31HM, porin 31HL and plasmalemmal porin, belongs to the eukaryotic mitochondrial porin family. It adopts an open conformation at low or zero membrane potential and a closed conformation at potentials above 30-40 mV, to form a channel through the mitochondrial outer membrane and also the plasma membrane. Unlike other membrane transport proteins, porins are large enough to allow passive diffusion. Studies have shown that VDAC1 is subject to both phosphorylation and acetylation (PMID: 23233904). The apparent molecular weight of VDAC1 is 30-37 kDa (PMID: 14573604; 23754752; 25681439). Hypoxic conditions were found to trigger cleavage of the VDAC1 C-terminal to yield a 26-kDa truncated but active form (PMID: 22389449; 23233904).

Storage

Storage:

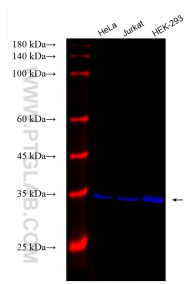
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with CL750-66345 (VDAC1/Porin antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.