

For Research Use Only

CoraLite® Plus 647-conjugated VDAC1/Porin Recombinant antibody

Catalog Number:CL647-81538



Basic Information

Catalog Number: CL647-81538	GenBank Accession Number: NM_003374	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 7416	CloneNo.: 2F4
Source: Rabbit	UNIPROT ID: P21796	Excitation/Emission maxima wavelengths: 654 nm / 674 nm
Isotype: IgG	Full Name: voltage-dependent anion channel 1	
	Calculated MW: 31 kDa	
	Observed MW: 31 kDa	

Applications

Tested Applications:
FC (Intra)

Species Specificity:
human, mouse, rat

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). This antibody is specific to VDAC1.

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

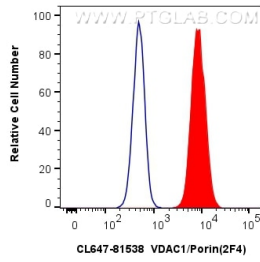
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1x10⁶ HepG2 cells were intracellularly stained with 0.8 ug Coralite® Plus 647 Vdac1/Porin Recombinant Antibody (CL647-81538, Clone:2F4) (red), or 0.8 ug Coralite® Plus 647-conjugated Rabbit IgG control Rabbit PolyAb (CL647-30000) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).