For Research Use Only

CoraLite®555-conjugated VDAC1/Porin Polyclonal antibody

Catalog Number:CL555-55259 Featured Product

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
CL555-55259

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_003374

GeneID (NCBI):
7416

UNIPROT ID:
P21796

Full Name:
voltage-dependent anion channel 1

Calculated MW:
31 kDa

Observed MW:
31 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
IF-P: 1:50-1:500
IF-Fro: 1:50-1:500
FC (Intra): 0.80 ug per 10^6 cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:
557 nm / 570 nm

Applications

Tested Applications:
IF-P, IF-Fro, FC (Intra)

Species Specificity:
human, mouse, rat

Positive Controls:

IF-P : human liver cancer tissue,

IF-Fro : mouse liver tissue,

FC (Intra) : HepG2 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). This antibody is specific to VDAC1.

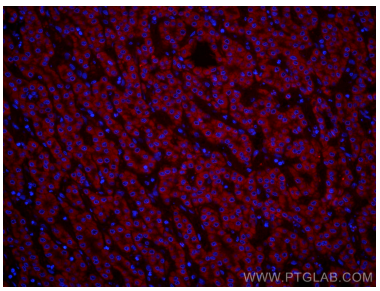
Storage

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, pH7.3
Aliquoting is unnecessary for -20°C storage

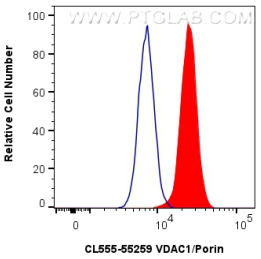
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

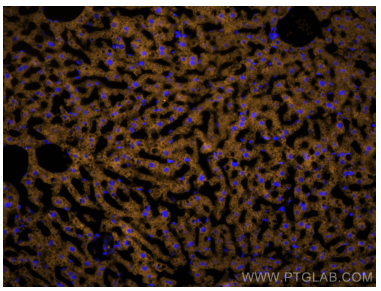
Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed human liver cancer tissue using CoraLite®555 VDAC1/Porin antibody (CL555-55259) at dilution of 1:200.



1x10^6 HepG2 cells were intracellularly stained with 0.8 ug CoraLite®555-conjugated VDAC1/Porin Polyclonal antibody (CL555-55259) (red), or 0.8 ug CoraLite®555-conjugated Rabbit IgG control Rabbit PolyAb (CL555-30000) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse liver tissue using CoraLite®555 VDAC1/Porin antibody (CL555-55259) at dilution of 1:200.