

For Research Use Only

CoraLite® Plus 488-conjugated SERCA3 Monoclonal antibody

Catalog Number:CL488-68287



Basic Information

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| Catalog Number: CL488-68287 | GenBank Accession Number: BC035729 | Purification Method: Protein G purification |
| Size: 1000 µg/ml | GeneID (NCBI): 489 | CloneNo.: 1A2C2 |
| Source: Mouse | UNIPROT ID: Q93084 | Recommended Dilutions: IF/ICC 1:50-1:500 |
| Isotype: IgG1 | Full Name: ATPase, Ca ⁺⁺ transporting, ubiquitous | Excitation/Emission maxima wavelengths: 493 nm / 522 nm |
| Immunogen Catalog Number: AG4527 | Calculated MW: 1043 aa, 114 kDa | |
| | Observed MW: 97-110 kDa | |

Applications

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| Tested Applications: IF/ICC | Positive Controls: IF/ICC : HT-29 cells, |
| Species Specificity: human, mouse, rat | |

Background Information

The SERCA, which pumps cytosolic Ca²⁺ into the ER, is an imperative maintainer of ER Ca²⁺ homeostasis. The mammalian SERCA family is comprised of three tissue-specific members, SERCA1-3. SERCA3 is present in endothelial and epithelial cells of various tissues. SERCA3 helps regulate intracellular Ca²⁺, which is critical for maintaining normal INS secretion and is closely linked to metabolism, neuronal plasticity, gene transcription, cell growth, differentiation, apoptosis, protein folding and carcinogenesis. Several isoforms of SERCA3 exist due to the alternative splicing.

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:

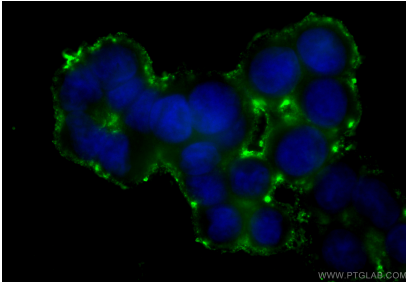
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (-20°C Methanol) fixed HT-29 cells using CoraLite® Plus 488 SERCA3 antibody (CL488-68287, Clone: 1A2C2) at dilution of 1:200.