

For Research Use Only

CoraLite® Plus 488-conjugated ZG16 Monoclonal antibody



Catalog Number:CL488-67389

Basic Information

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| Catalog Number: CL488-67389 | GenBank Accession Number: BC029149 | Purification Method: Protein G purification |
| Size: 100ul , Concentration: 1000 µg/ml by Nanodrop; | GeneID (NCBI): 653808 | CloneNo.: 1A7B9 |
| Source: Mouse | Full Name: zymogen granule protein 16 homolog (rat) | Recommended Dilutions: IF 1:50-1:500 |
| Isotype: IgG1 | Calculated MW: 167 aa, 18 kDa | Excitation/Emission maxima wavelengths: 493 nm / 522 nm |
| Immunogen Catalog Number: AG11332 | Observed MW: 16 kDa | |

Applications

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| Tested Applications: IF | Positive Controls: IF : mouse small intestine tissue, |
| Species Specificity: Human, mouse, pig, rat | |

Background Information

Zymogen granule protein 16 (ZG16) has a Jacalin-like lectin domain, which is mainly expressed by mucus-secreting cells, including goblet cells in the intestine. It's reported that ZG16 expression was significantly decreased in colorectal cancer compared to normal tissue. ZG16 gene expression and copy number variations (CNV) were associated with multiple molecular and clinicopathological features of CRC including MSI, MLH1 silencing and so on. It's found that ZG16 is negatively correlated with lymphatic invasive and distant metastasis. Besides, overexpression of ZG16 blocks PD-L1 expression in colorectal cancer, and promotes NK cells survival and proliferation. Very importantly, ZG16 suppresses colorectal tumor growth via the immune system. (PMID: 33360840, 21893569)

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

*** 20ul sizes contain 0.1% BSA

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)
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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 (4% PFA) fixed mouse small intestine tissue using CoraLite® Plus 488 ZG16 antibody (CL488-67389, Clone: 1A7B9) at dilution of 1:200, CoraLite®594 smooth muscle actin antibody (CL594-14395, red).