

CoraLite® Plus 488-conjugated CMPK1 Monoclonal antibody

Catalog Number: **CL488-67519**

Basic Information

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| Catalog Number: CL488-67519 | GenBank Accession Number: BC014961 | Purification Method: Protein A purification |
| Size: 1000 µg/ml | GeneID (NCBI): 51727 | CloneNo.: 2D11G7 |
| Source: Mouse | UNIPROT ID: P30085 | Recommended Dilutions: IF/ICC 1:50-1:500 |
| Isotype: IgG2b | Full Name: cytidine monophosphate (UMP-CMP) kinase 1, cytosolic | Excitation/Emission maxima wavelengths: 493 nm / 522 nm |
| Immunogen Catalog Number: AG30084 | Calculated MW: 228 aa, 26 kDa | |
| | Observed MW: 22-26 kDa | |

Applications

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| Tested Applications: IF/ICC | Positive Controls: IF/ICC : HeLa cells, |
| Species Specificity: Human | |

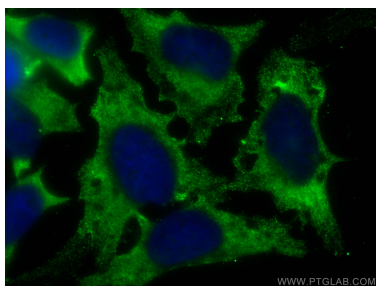
Background Information

Pyrimidine nucleoside monophosphate kinase [UMP/CMP kinase (UMP/CMPK)] (CMPK1) is also named as CMK, CMPK, UCK, UMK, UMPK and belongs to the adenylate kinase family. It plays a crucial role in the formation of UDP, CDP, and dCDP, which are required for cellular nucleic acid synthesis (PMID:11912132). CMPK1 can use a broad spectrum of phosphate donors but the best phosphate donors are ATP and dATP. CMPK1 has been reported as a prognostic marker for non-small cell lung cancer, pancreatic cancer and breast cancer (PMID: 21642870, 22838950, 27558661). The longest deduced protein contains 228 amino acids and has a calculated molecular mass of 26 kD. However, translation likely begins at the second initiation methionine, resulting in a protein of 196 amino acids (PMID:10462544). The shorter form is the endogenously translated protein (PMID:11912132). CMPK1 has 3 isoforms with the molecular mass of 22, 16 and 26 kDa.

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



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using Coralite® Plus 488 CMPK1 antibody (CL488-67519, Clone: 2D11G7) at dilution of 1:200.