

For Research Use Only



CoraLite® Plus 488-conjugated Thymidylate synthase Monoclonal antibody

Catalog Number: **CL488-66725** **Featured Product**

Basic Information

Catalog Number: CL488-66725	GenBank Accession Number: BC002567	Purification Method: Protein G purification
Size: 1000 µg/ml	GeneID (NCBI): 7298	CloneNo.: 1F5B7
Source: Mouse	UNIPROT ID: P04818	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Isotype: IgG1	Full Name: thymidylate synthetase	
Immunogen Catalog Number: AG7027	Calculated MW: 36 kDa	
	Observed MW: 36 kDa	

Applications

Tested Applications:
FC (Intra)

Species Specificity:
Human

Background Information

Thymidylate synthase gene (TYMS) encodes thymidylate synthase (TS) which is an important factor in the growth of tumor cells. TS can catalyze the transformation of intracellular uridine monophosphate (UMP) into dTMP which is required for DNA replication and repairing. TS is a key enzyme in the process of cell proliferation, also is the important target enzymes of 5-FU and other chemotherapy drugs. The expression of TYMS is negatively correlated with the efficacy of chemotherapy and the prognosis of patients who suffer from rectal cancer, breast cancer, colorectal cancer, gastric cancer, head and neck cancer, esophageal cancer, pancreatic cancer and so on.

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:

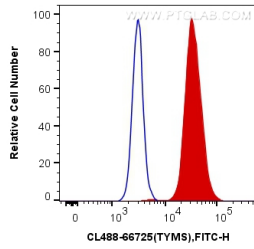
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1X10⁶ HeLa cells were intracellularly stained with 0.4 ug Coralite® Plus 488 Anti-Human TYMS (CL488-66725, Clone:1F5B7) (red), or 0.4 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).