

For Research Use Only



# CoraLite® Plus 488-conjugated Thymidylate synthase Monoclonal antibody

Catalog Number: **CL488-66725**

Featured Product

## Basic Information

Catalog Number:	GenBank Accession Number:	Purification Method:
CL488-66725	BC002567	Protein G purification
Size:	GeneID (NCBI):	CloneNo.:
100ul , Concentration: 1000 ug/ml by Nanodrop;	7298	1F5B7
Source:	UNIPROT ID:	Excitation/Emission maxima wavelengths:
Mouse	P04818	493 nm / 522 nm
Isotype:	Full Name:	
IgG1	thymidylate synthetase	
Immunogen Catalog Number:	Calculated MW:	
AG7027	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.

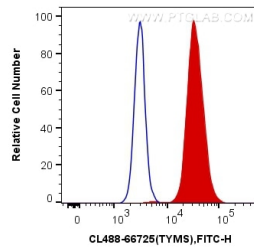
## Storage

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:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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## Selected Validation Data



1X10<sup>6</sup> 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).