

CoraLite® Plus 488-conjugated eRF3a/GSPT1 Monoclonal antibody

Catalog Number: **CL488-68217**

Basic Information

Catalog Number: CL488-68217	GenBank Accession Number: BC009503	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 2935	CloneNo.: 2A3H6
Source: Mouse	UNIPROT ID: P15170	Recommended Dilutions: IF/ICC 1:50-1:500
Isotype: IgG2a	Full Name: G1 to S phase transition 1	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Immunogen Catalog Number: AG27986	Calculated MW: 68 aa, 4 kDa	
	Observed MW: 80-85 kDa	

Applications

Tested Applications: IF/ICC, FC (Intra)	Positive Controls: IF/ICC : HeLa cells, HepG2 cells
Species Specificity: human, mouse, rat, pig	

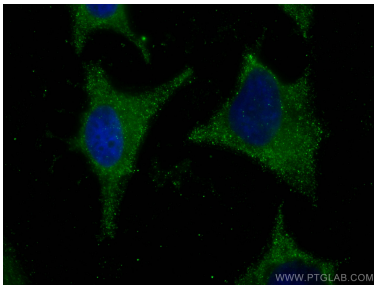
Background Information

The eukaryotic Release Factor 3 (eRF3) is a GTPase that associates with eRF1 in a complex that mediates translation termination. Eukaryotic release factor 3 (eRF3) has many functions in eukaryotic cells, such as controlling the regulation of the cell cycle at the G1 to S phase transition, and regulating protein synthesis as a GTP dependent stimulator of eRF1 in translation termination. It was also reported to play a key role as an initiator of the mRNA degradation machinery in the recycling of ribosomes in successive cycles of translation, and probably also in transcription regulation. eRF3a, also known as GSPT1, is one subunit of eRF3 (PMID:15917414,12923185). It involves in translation termination in response to the termination codons UAA, UAG and UGA and stimulates the activity of eRF1. eRF3a/GSPT1 exists some isoforms with MV 69 kDa and 56 kDa. Identification of a processed form of eRF3a/GSPT1 as a BIR3-binding protein-Using a GST-BIR3 fusion protein as an affinity reagent to purify new IAP binding proteins from extracts of human cells and mouse tissues, we previously isolated 3 proteins of molecular weights 23, 38 and 80 kDa. 80 kDa band confirmed that it is a processed form of the human GSPT1/eRF3a protein, lacking the first 69 residues (PMID: 12865429).

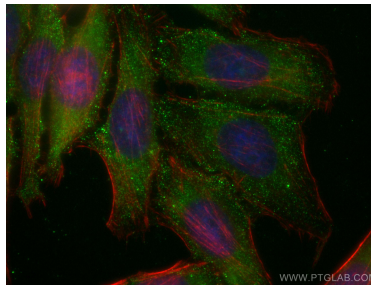
Storage

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

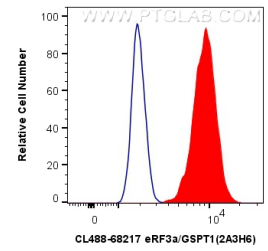
Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using Coralite® Plus 488 eRF3a/GSPT1 antibody (CL488-68217, Clone: 2A3H6) at dilution of 1:100.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using Coralite® Plus 488 eRF3a/GSPT1 antibody (CL488-68217, Clone: 2A3H6) at dilution of 1:100, CL594-phalloidin (red).



1X10⁶ HeLa cells were intracellularly stained with 0.4 ug Coralite® Plus 488 Anti-Human eRF3a/GSPT1 (CL488-68217, Clone:2A3H6) (red), or 0.4 ug Mouse IgG2a Isotype Control (CL488-66360-2, Clone: K11A1B2A2) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).