

CoraLite® Plus 488-conjugated RAG2 Monoclonal antibody

Catalog Number: **CL488-66998**

Basic Information

Catalog Number: CL488-66998	GenBank Accession Number: BC022397	Purification Method: Protein G purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 5897	CloneNo.: 1B4E5
Source: Mouse	UNIPROT ID: P55895	Recommended Dilutions: IF/ICC 1:300-1:1200
Isotype: IgG1	Full Name: recombination activating gene 2	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Immunogen Catalog Number: AG16780	Calculated MW: 527 aa, 59 kDa	

Applications

Tested Applications: IF/ICC, FC (Intra)	Positive Controls: IF/ICC : HepG2 cells,
Species Specificity: Human, pig	

Background Information

Recombination activating gene 2(RAG2) is core part of the RAG complex(RAG1 and RAG2), which mediates the DNA cleavage phase during V(D)J recombination. The RAG complex also plays a role in pre-B cell allelic exclusion, a process leading to expression of a single immunoglobulin heavy chain allele to enforce clonality and monospecific recognition by the B-cell antigen receptor (BCR) expressed on individual B-lymphocytes. The introduction of DNA breaks by the RAG complex on one immunoglobulin allele induces ATM-dependent repositioning of the other allele to pericentromeric heterochromatin, preventing accessibility to the RAG complex and recombination of the second allele. In the RAG complex, RAG2 is not the catalytic component but is required for all known catalytic activities mediated by RAG1. It probably acts as a sensor of chromatin state that recruits the RAG complex to H3K4me3

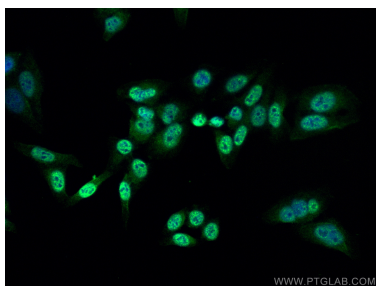
Storage

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

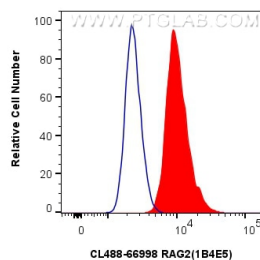
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CoraLite® Plus 488 RAG2 antibody (CL488-66998, Clone: 1B4E5) at dilution of 1:600.



1x10⁶ HepG2 cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human RAG2 (CL488-66998, Clone:1B4E5) (red), or 0.4 ug CoraLite® Plus 488 Mouse IgG1 Isotype Control (1F8D3) (CL488-66360-1, Clone: 1F8D3) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).