For Research Use Only

RAG2 Monoclonal antibody

Catalog Number:66998-1-Ig



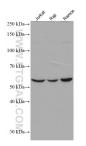
Basic Information	Catalog Number: 66998-1-lg	GenBank Accession Number: BC022397	Purification Method: Protein A purification			
	Size: 1800 µg/ml	GeneID (NCBI): 5897	CloneNo.: 1B4E5			
	Source: Mouse Isotype: IgG1 Immunogen Catalog Number: AG16780	UNIPROT ID: P55895 Full Name: recombination activating gene 2	Recommended Dilutions: WB 1:1000-1:8000 IF/ICC 1:400-1:1600			
				Calculated MW: 527 aa, 59 kDa Observed MW: 57-62 kDa		
		Applications	Tested Applications: WB, ELISA, IF/ICC, FC (Intra)			Positive (
			Species Specificity: Human, pig	WB : Jurkat cells, Raji cells, Ramos cells IF/ICC : HepG2 cells,		
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. Stable for one year Storage Buffer: PBS with 0.02% sodium azide and Aliquoting is unnecessary for -20°	1 50% glycerol pH 7.3.				

 For technical support and original validation data for this product please contact:

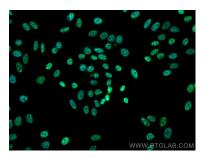
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

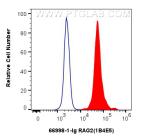
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66998-1-1g (RAG2 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using RAG2 antibody (66998-1-1g, Clone: 1B4E5) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



1x10^6 HepG2 cells were intracellularly stained with 0.4 ug Anti-Human RAG2 (66998-1-1g, Clone:1B4E5) and Coralite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG1 isotype control Mouse McAb (66360-1-1g, Clone: 1F8D3) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).