

## Allgemeine Informationen

<b>Katalog-Nr.:</b> 66998-1-Ig	<b>GenBank-Zugangsnummer:</b> BC022397	<b>Reinigungsmethode:</b> Protein-A-Reinigung
<b>Größe:</b> 150ul , Konzentration: 2400 µg/ml von5897 Nanodrop und 1000 µg/ml durch die Bradford-Methode mit BSA als Standard;	<b>GeneID (NCBI):</b> recombination activating gene 2	<b>CloneNo.:</b> 1B4E5
<b>Wirt:</b> Maus	<b>Berechnete Masse:</b> 527 aa, 59 kDa	<b>Empfohlene Verdünnungen:</b> WB 1:1000-1:8000 IF 1:400-1:1600
<b>Isotyp:</b> IgG1	<b>Beobachtete Masse:</b> 57-62 kDa	
<b>Immunogen Katalognummer:</b> AG16780		

## Anwendungen

<b>Geprüfte Anwendungen:</b> IF, WB, ELISA	<b>Positivkontrollen:</b> WB : Jurkat-Zellen, Raji-Zellen, Ramos-Zellen IF : HepG2-Zellen,
<b>Getestete Reaktivität:</b> Hausschwein, Human	

## Hintergrundinformationen

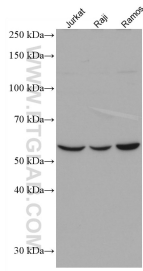
Recombination activating gene 2(RAG2) is core part of the RAG complex(RAG1 and RAG2), which mediates the DNA cleavage phase during V(D)J recombination. The RAG complex also plays a role in pre-B cell allelic exclusion, a process leading to expression of a single immunoglobulin heavy chain allele to enforce 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

## Lagerung

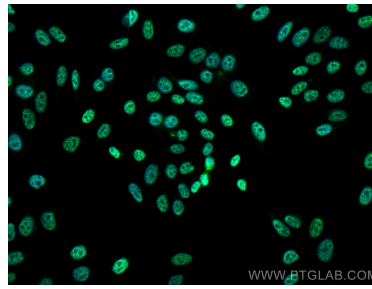
**Lagerungsbedingungen:**  
Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil  
**Lagerungspuffer:**  
PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.  
**Aliquotieren ist nicht notwendig bei -20°C Lagerung**

**\*\*\* 20ul-Größen enthalten 0.1% BSA**

## Ausgewählte Validierungsdaten



Various lysates were subjected to SDS PAGE followed by western blot with 66998-1-Ig (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-Ig, Clone: 1B4E5 ) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).