

Datasheet for ABIN3043918  
**anti-RAG2 antibody (C-Term)**[Go to Product page](#)

## 4 Images

## Overview

Quantity:	100 µg
Target:	RAG2
Binding Specificity:	AA 498-527, C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for V(D)J recombination-activating protein 2(RAG2) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human RAG2 (498-527aa KKPPMKSLRKKKGSGKILTPAKKSFLRRLFD), different from the related mouse sequence by three amino acids.
Sequence:	KKPPMKSLRK KGSGKILTPA KKSFLRRLFD
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for V(D)J recombination-activating protein 2(RAG2) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: recombination activating gene 2 Protein Name: V(D)J recombination-activating protein 2

## Product Details

Purification: Immunogen affinity purified.

## Target Details

Target: RAG2

Alternative Name: RAG2 ([RAG2 Products](#))

Background: Recombination activating gene 2, also known as RAG-2, is a protein that in humans is encoded by the RAG2 gene. This gene encodes a protein that is involved in the initiation of V(D)J recombination during B and T cell development. This protein forms a complex with the product of the adjacent recombination activating gene 1, and this complex can form double-strand breaks by cleaving DNA at conserved recombination signal sequences. The recombination activating gene 1 component is thought to contain most of the catalytic activity, while the N-terminal of the recombination activating gene 2 component is thought to form a six-bladed propeller in the active core that serves as a binding scaffold for the tight association of the complex with DNA. A C-terminal plant homeodomain finger-like motif in this protein is necessary for interactions with chromatin components, specifically with histone H3 that is trimethylated at lysine 4. Mutations in this gene cause Omenn syndrome, a form of severe combined immunodeficiency associated with autoimmune-like symptoms.

Synonyms: RAG 2 antibody|RAG-2 antibody|RAG2 antibody|RAG2\_HUMAN antibody|Recombination activating gene 2 antibody|V(D)J recombination activating protein 2 antibody|V(D)J recombination-activating protein 2 antibody

Gene ID: 5897

UniProt: [P55895](#)

Pathways: [Chromatin Binding](#), [Production of Molecular Mediator of Immune Response](#)

## Application Details

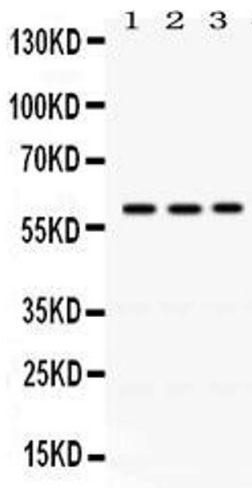
Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human  
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.  
Notes: Tested Species: Species with positive results. Other applications have not been tested.  
Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by

Application Details

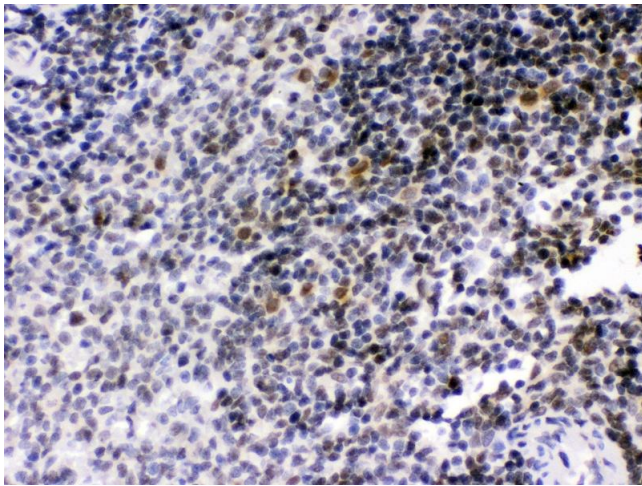
	ABIN921231 in IHC(P).
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Validation report #300031 for Immunohistochemistry (IHC)



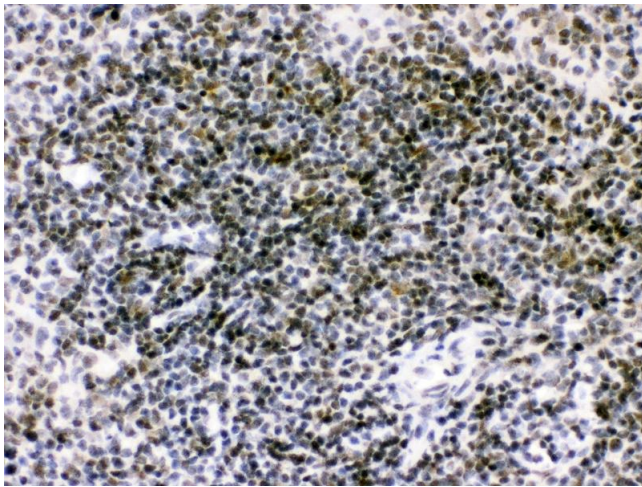
Western Blotting

**Image 1.** Anti- RAG2 Picoband antibody, Western blottingAll lanes: Anti RAG2 at 0.5ug/ml Lane 1: A549 Whole Cell Lysate at 40ug Lane 2: 22RV1 Whole Cell Lysate at 40ug Lane 3: U20S Whole Cell Lysate at 40ug Predicted bind size: 59KD Observed bind size: 59KD



#### Immunohistochemistry

**Image 2.** Anti- RAG2 Picoband antibody, IHC(P) IHC(P): Rat Spleen Tissue



#### Immunohistochemistry

**Image 3.** Anti- RAG2 Picoband antibody, IHC(P) IHC(P): Mouse Spleen Tissue

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN3043918.