

# RAG1 Polyclonal antibody

Catalog Number: 20977-1-AP

## Basic Information

**Catalog Number:**

20977-1-AP

**Size:**

1100 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

NM\_000448

**GeneID (NCBI):**

5896

**UNIPROT ID:**

P15918

**Full Name:**

recombination activating gene 1

**Calculated MW:**

119 kDa

**Observed MW:**

110-120 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2000

## Applications

**Tested Applications:**

WB, ELISA

**Species Specificity:**

human, mouse, rat

**Positive Controls:**

WB : mouse thymus tissue, rat thymus tissue

## Background Information

Recombination-activating gene (RAG) proteins include RAG1 and RAG2, which are crucial for Ig and T lymphocyte receptor (TCR) fragment rearrangement and are responsible for DNA recognition and cleavage at specific sequences. Mutations in RAG1 result in the complete or partial loss of recombinant enzyme activity, in unbalanced variable-diversity-joining (V(D)J) recombination, and in the impairment of T and B lymphocyte development at the early stages.

## Storage

**Storage:**

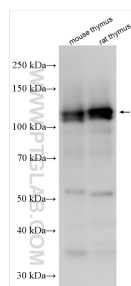
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 20977-1-AP (RAG1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.