

Rabbit anti-Human, Mouse RAG1 Polyclonal Antibody | anti-RAG1 antibody

Anti-RAG1 Antibody

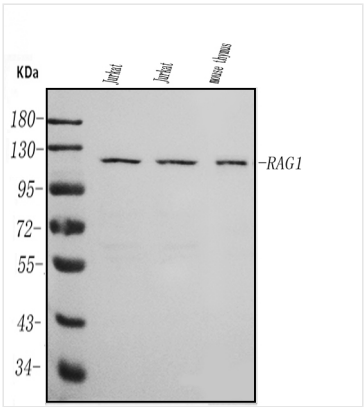
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125539	Rabbit	Human, Mouse	Western Blot

PRODUCT SYNONYMS

RAG1; Polyclonal Antibody; Anti-RAG1 Antibody; RNF74; V(DJ recombination-activating protein 1; RAG-1; RING finger protein 74 [Includes: Endonuclease RAG1; E3 ubiquitin-protein ligase RAG1; RING-type E3 ubiquitin transferase RAG1; recombination activating 1; anti-RAG1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for RAG1 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-RAG1 antibody	WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence of human RAG1 (KHHWLYTSKYLQKFMNA). Human RAG1 shares 100% amino acid (aa) sequence identity with mouse RAG1.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Relevant Detection Systems	We recommend Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot.
Preparation and Storage	Store at -20 degrees C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degrees C for a longer time. Avoid repeated freezing and thawing.



WB (Western Blot)

Figure 1. Western blot analysis of RAG1 using anti-RAG1 antibody (AAA125539). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human Jurkat whole cell lysates Lane 2: human Jurkat whole cell lysates Lane 3: mouse thymus tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-RAG1 antigen affinity purified polyclonal antibody (Catalog # AAA125539) at 0.5 µg/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for RAG1 at approximately 120KD. The expected band size for RAG1 is at 120KD.

ADDITIONAL INFORMATION

Related Product Information for anti-RAG1 antibody	Recombination activating gene 1 also known as RAG-1 is a protein that in humans is encoded by the RAG1 gene. The protein encoded by this gene is involved in activation of immunoglobulin V-D-J recombination. The encoded protein is involved in recognition of the DNA substrate, but stable binding and cleavage activity also requires RAG2. Defects in this gene can be the cause of several diseases.
References	1. Agrawal, A., Eastman, Q. M., Schatz, D. G. Transposition mediated by RAG1 and RAG2 and its implications for the evolution of the immune system. Nature 394: 744-751, 1998. 2. Blanquet, V., Turleau, C., Goossens, M., Besmond, C. Assignment of the human recombination activating gene 1 (RAG1) to the 14q21.3-q22.2 region. Genomics 13: 488-489, 1992. 3. Corneo, B., Moshous, D., Gungor, T., Wulffraat, N., Philippet, P., Le Deist, F., Fischer, A., de Villartay, J. -P. Identical mutations in RAG1 or RAG2 genes leading to defective V(D)J recombinase activity can cause either T-B-severe combined immune deficiency or Omenn syndrome. Blood 97: 2772-2776, 2001.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557841
NCBI GeneID	5896
NCBI Accession #	NP_000439.1
NCBI GenBank Nucleotide #	NM_000448.2
UniProt Accession #	P15918; Q8IY72; Q8NER2; E9PPC4
Molecular Weight	106,179 Da
NCBI Official Full Name	V(D)J recombination-activating protein 1
NCBI Official Synonym Full Names	recombination activating gene 1
NCBI Official Symbol	RAG1

NCBI Official Synonym Symbols	RAG-1; RNF74
NCBI Protein Information	V(D)J recombination-activating protein 1
UniProt Protein Name	V(D)J recombination-activating protein 1
UniProt Gene Name	RAG1
UniProt Synonym Gene Names	RNF74; RAG-1
UniProt Entry Name	RAG1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/rag1-antibody-western-blot-elisa/125539>