

Rabbit anti-Human, Mouse RAG2 Polyclonal Antibody | anti-RAG2 antibody

Anti-RAG2 Antibody Picoband

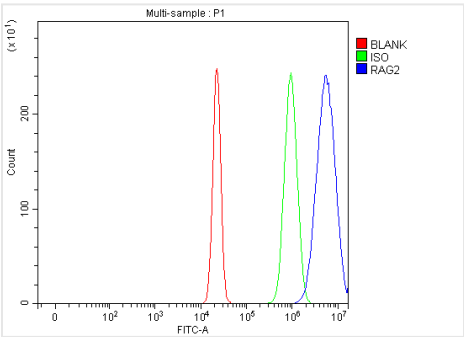
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126980	Rabbit	Human, Mouse	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

RAG2; Polyclonal Antibody; Anti-RAG2 Antibody Picoband; Leptin receptor; LEP-R; HuB219; OB receptor; OB-R; CD295; LEPR; DB; OBR; anti-RAG2 antibody

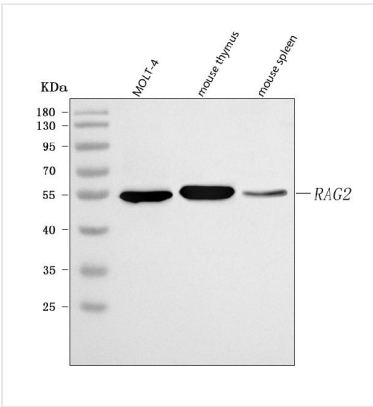
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Isoform A is Expressed in fetal liver and in hematopoietic tissues and choroid plexus. In adults highest expression in heart, liver, small intestine, prostate and ovary. Low level in lung and kidney. Isoform B is Highly expressed in hypothalamus.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-RAG2 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human RAG2 recombinant protein (Position: F46-K503).
Subcellular Localization	Cell membrane, Single-pass type I membrane protein
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins
Protein Function	Receptor for obesity factor (leptin). On ligand binding, mediates signaling through JAK2/STAT3. Involved in the regulation of fat metabolism and, in a hematopoietic pathway, required for normal lymphopoiesis. May play a role in reproduction. Can also mediate the ERK/FOS signaling pathway (By similarity).
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of U2OS cells using anti-RAG2 antibody (AAA126980).Overlay histogram showing U2OS cells stained with AAA126980 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-RAG2 Antibody (AAA126980, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



WB (Western Blot)

Figure 1. Western blot analysis of RAG2 using anti-RAG2 antibody (AAA126980).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 30 ug of sample under reducing conditions.Lane 1: human MOLT-4 whole cell lysates,Lane 2: mouse thymus tissue lysates,Lane 6: mouse spleen tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-RAG2 antigen affinity purified polyclonal antibody (#AAA126980) at 0.5ug/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 RAG2 at approximately 55 kDa. The expected band size for RAG2 is at 59 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-RAG2 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-RAG2 antibody	Primary Antibodies; Collagen; Cytoskeleton/ECM; ECM Proteins; Extracellular Matrix; Signal Transduction; Structures
References	1. "Entrez Gene: Recombination activating gene 2".2. Callebaut, I., Mornon, J.-P. The V(D)J recombination activating protein RAG2 consists of a six-bladed propeller and a PHD fingerlike domain, as revealed by sequence analysis. Cell. Molec. Life Sci. 54: 880-891, 1998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	151301080
NCBI GeneID	5897
NCBI Accession #	NP_000527.2
NCBI GenBank Nucleotide #	NM_000536.3
UniProt Accession #	P55895; Q8TBL4; A8K9E9
Molecular Weight	59,241 Da
NCBI Official Full Name	V(D)J recombination-activating protein 2
NCBI Official Synonym Full Names	recombination activating gene 2
NCBI Official Symbol	RAG2
NCBI Official Synonym Symbols	RAG-2
NCBI Protein Information	V(D)J recombination-activating protein 2

UniProt Protein Name	V(D)J recombination-activating protein 2
UniProt Gene Name	RAG2
UniProt Synonym Gene Names	RAG-2
UniProt Entry Name	RAG2_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/rag2-antibody-flow-cytometry-western-blot-elisa/126980>