

## Anti-RAG2 Antibody Picoband® APC Conjugated

Catalog Number: A00352-APC

### About RAG2

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.

### Overview

|                      |   |
|----------------------|---|
| Product Name         | Anti-RAG2 Antibody Picoband® APC Conjugated   |
| Reactive Species     | Human, Mouse  |
| Application          | Recommended applications are based on the parent unconjugated antibody (ELISA, Flow Cytometry, WB). Customers may select suitable applications according to their experimental needs. |
| Clonality            | Polyclonal  |
| Formulation          | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .  |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.  |
| Host                 | Rabbit  |
| Uniprot ID           | P55895  |

### Technical Details

|                  |   |
|------------------|---|
| Immunogen        | E.coli-derived human RAG2 recombinant protein (Position: F46-K503). |
| Cross Reactivity | No cross-reactivity with other proteins                             |
| Isotype          | Rabbit IgG  |
| Form             | Liquid  |
| Concentration    | 0.5 mg/mL   |
| Purification     | Immunogen affinity purified.  |
| Conjugate        | APC<br>Excitation Wavelength: 633-647 nm                            |

|                     |  |
|---------------------|--|
|                     | Emission Wavelength: 660 nm                          |
| Suggested Dilutions | Optimal dilutions should be determined by end users. |

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Anti-RAG2 Antibody - APC

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