

RAG2 Polyclonal Antibody

Catalog No.	A12488	Category	Polyclonal Antibodies
Applications	WB	Observed MW	59kDa
Cross-reactivity	Human, Mouse	Calculated MW	59kDa

Immunogen Information

Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 258-527 of human RAG2 (NP_001230715.1).
Gene ID	5897
Swiss prot	P55895
Synonyms	RAG2; RAG-2; recombination activating 2

Product information

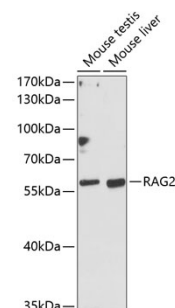
Source	Rabbit
Isotype	IgG
Purification method	Affinity purification
Storage	Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Background

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.

Recommended Dilutions

WB 1:500 -
1:2000



Western blot - RAG2 Polyclonal Antibody (A12488)