

Product datasheet for **AM06429SU-N**

RAG2 Mouse Monoclonal Antibody [Clone ID: 4D5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	4D5
Applications:	ELISA, WB
Recommended Dilution:	Western Blot: 1/500 - 1/2000. ELISA: 1/10000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of human RAG2(350-527aa) expressed in E. Coli.
Specificity:	This antibody reacts to RAG2.
Formulation:	State: Ascites State: Ascitic fluid containing 0.03% sodium azide.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	59 kDa
Gene Name:	recombination activating gene 2
Database Link:	Entrez Gene 5897 Human P55895



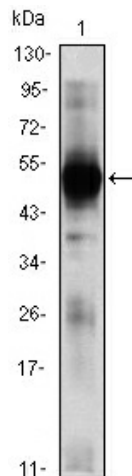
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Background:

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.

Synonyms:

RAG-2

Product images:

Western blot analysis using RAG2 mouse mAb against RAG2 (AA: 350-527)-hlgGfC transfected HEK293 (1) cell lysate.