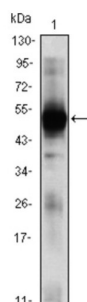


## Recombination Activating Gene 2 (RAG2) Antibody

Catalogue No.: abx012073



Western blot analysis using RAG2 antibody against RAG2 (AA: 350-527) -hlgGfc transfected HEK293 (1) cell lysate.

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.

<b>Target:</b>	Recombination Activating Gene 2 (RAG2)
<b>Clonality:</b>	Monoclonal
<b>Reactivity:</b>	Human
<b>Tested Applications:</b>	ELISA
<b>Host:</b>	Mouse
<b>Recommended dilutions:</b>	ELISA: 1/10000. Optimal dilutions/concentrations should be determined by the end user.
<b>Conjugation:</b>	Unconjugated
<b>Immunogen:</b>	Purified recombinant fragment of human RAG2 (350-527aa) expressed in E. coli.
<b>Isotype:</b>	IgG <sub>1</sub>
<b>Form:</b>	Liquid
<b>Purification:</b>	Unpurified ascites.
<b>Storage:</b>	Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.

# Datasheet

Version: 4.0.0

Revision date: 03 May 2025



**UniProt Primary AC:** P55895 ([UniProt](#), [ExPASy](#))

**Gene Symbol:** RAG2

**GeneID:** [5897](#)

**OMIM:** [179616](#)

**HGNC:** 9832

**KEGG:** hsa:5897

**Ensembl:** ENSG00000175097

**String:** [9606.ENSP00000478672](#)

**Molecular Weight:** 59 kDa

**Buffer:** Ascitic fluid containing 0.03% sodium azide.

**Concentration:** Not determined.

**Note:** THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.