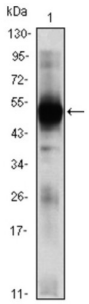
Recombination Activating Gene 2 (RAG2) Antibody

Catalogue No.:abx012073



Western blot analysis using RAG2 antibody against RAG2 (AA: 350-527) -hIgGFc 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.

Target:	Recombination Activating Gene 2 (RAG2)
Clonality:	Monoclonal
Reactivity:	Human
Tested Applications:	ELISA
Host:	Mouse
Recommended dilutions:	ELISA: 1/10000. Optimal dilutions/concentrations should be determined by the end user.
Conjugation:	Unconjugated
Immunogen:	Purified recombinant fragment of human RAG2 (350-527aa) expressed in E. coli.
Isotype:	IgG_1
Form:	Liquid
Purification:	Unpurified ascites.
Storage:	Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.

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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.

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